



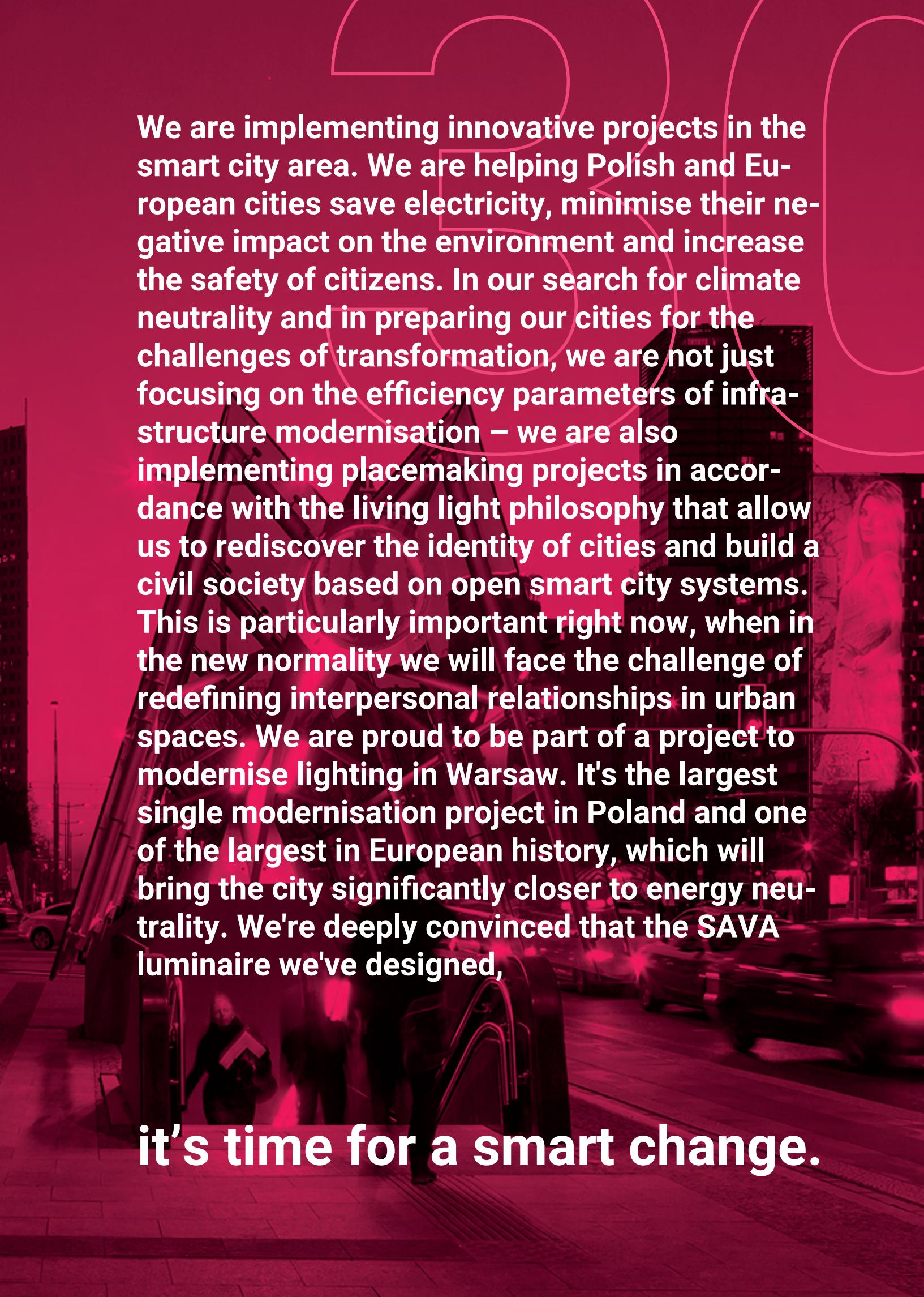
TENNIS COURTS





over
30
years
of experience

70 markets worldwide
600 employees
Traded at the Warsaw Stock Exchange
Member of the World Economic
Forum New Champions Community



We are implementing innovative projects in the smart city area. We are helping Polish and European cities save electricity, minimise their negative impact on the environment and increase the safety of citizens. In our search for climate neutrality and in preparing our cities for the challenges of transformation, we are not just focusing on the efficiency parameters of infrastructure modernisation – we are also implementing placemaking projects in accordance with the living light philosophy that allow us to rediscover the identity of cities and build a civil society based on open smart city systems. This is particularly important right now, when in the new normality we will face the challenge of redefining interpersonal relationships in urban spaces. We are proud to be part of a project to modernise lighting in Warsaw. It's the largest single modernisation project in Poland and one of the largest in European history, which will bring the city significantly closer to energy neutrality. We're deeply convinced that the SAVA luminaire we've designed,

it's time for a smart change.



A large crowd of people cheering with their hands raised, creating a sense of energy and excitement.

Sports facilities

are not only places for sports and cultural events, but also meeting places for thousands of people. Such events are for many a great opportunity to spend time together, to cheer for your favorite team, to break away from everyday duties and relax. Events taking place at such facilities are often broadcasted around the world. LUG Light Factory is a part of these events by creating lighting, therefore, thanks to our professional and individual approach to each project, we are able to meet even the highest requirements



Modern lighting systems in sports must meet very stringent requirements. They depend on the class of the facility and the type of competition that will be held there. Currently, with such popular commercialization of sports and their TV broadcasts, it is the requirements of TV stations that have a key voice when choosing a lighting system. The main parameters to pay attention to when choosing lighting are:

- Horizontal (Eh) and vertical (Ev) illuminance,
- Uniformity of lighting,
- Glare,
- Color temperature and color rendering index,



Lighting criteria



Color temperature and color rendering index

The color temperature [K]

is responsible for the perception of the color of white light. A color temperature with low values will have a warm color, while a color temperature with high values will have a cool color.

The color rendering index Ra (CRI)

describes the color perception of illuminated objects. It has been assumed that sunlight has an Ra index (CRI) of 100 and high values are tried to be achieved in lighting in order to best reproduce the color perception of the seen objects.



Sports facilities lighting

The lighting of sports facilities is a challenge due to the difficult and changing atmospheric conditions of the environment and the likely glare of users. When lighting tennis courts, a very important aspect is to ensure visual comfort. This affects not only the participants of the game, but also the spectators. Thanks to the usage and proper arrangement of lighting fixtures, we are able to ensure perfect uniformity of illuminated surfaces and optimal contrast. This is of great importance in games where the dynamics of the game and the speed of the moving balls are important.





Чемпионат

Одна

НАЦИОНАЛНИЙ

ТСРС

Banja Luka



In the middle of Mladen Stojanovic Park, named after a World War II partisan hero, is the Mladost Tennis Club with its Wimbledon Café and Lanaco Restaurant. The National Tennis Center of Republika Srpska in Banja Luka is, among others, the venue for ATP Challenger Tour tournaments - Srpska Open Challenger. World-class competition, attracting many stars from the world of sport and tennis. The tennis court and the intimate stands were illuminated with CRUISER ARENA LED luminaires. A total of 96 luminaires were installed on four masts using adjustable holders, which ensured optimal luminous flux and uniformity of lighting.

CRUISER ARENA LED luminaires have been selected in such a way as to provide ideal conditions for television broadcasting, which is very important considering the importance of the competitions that take place here.

Kozerki

The Sports and Tennis Complex, which was built in Kozerki, is a facility that, after completion of all construction works, will be the largest facility of this type in Poland, as well as one of the largest in Europe. The facility was built in the belief that sport not only has a great impact on physical and mental well-being, but is also an excellent way to spend free time with friends and family. The facility was built in the vicinity of a green nature reserve, which is why it is also an ideal place for rest and relaxation





Kozerki

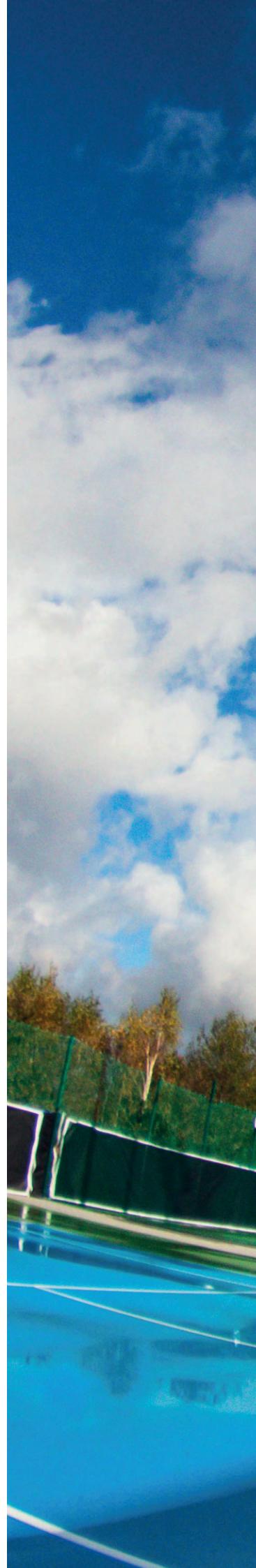


The incorporation of the ITF Women's and ATP Challenger Tour Men's tournaments into the facility in Kozerki changed the lighting requirements. Already at the design stage, we consulted the television, which will be responsible for the transmission, and it was their guidelines that were very important at the stage of selecting the right lighting. Obtaining the right parameters for both the playing field and the TV cameras was a long and complicated process for which our specialists in this field were responsible. LUG is responsible not only for lighting the playing field directly, but we also take part in lighting the fan zone, hall illumination and communication routes.



Tennis Kozerki

Tenis Kozerki is a sports complex located near Warsaw, which was created not only for training, but also for competitions at the highest level. The complex, located a short distance from the capital, makes it an ideal place to improve your skills in this fantastic sport. Tenis Kozerki is not only modern, top-quality tennis courts with LAY-KOLD surface, but also sports halls, paddle courts, a mini basketball court, facilities, as well as accommodation and Cafe Bistro. Due to the importance of the competitions held at the facility, the courts have been equipped with 322 top-quality CRUISER ARENA LED luminaires by LUG, which not only provide adequate lighting conditions for television broadcasts, but are also energy-saving and fully controllable.





Ustka - OSiR



The sports facility in Ustka is a municipal facility that was created for the residents, but also for tourists. The complex includes tennis courts, a football field and playgrounds. It is the tennis courts that have been equipped with LUG lighting. The task of the lighting was to achieve good uniformity and eliminate glare among people using the facility.



The tennis courts were equipped with 27 POWERLUG LED luminaires. Thanks to our lighting, this facility is not only energy-saving, but also meets all the requirements and standards for lighting sports facilities.

Campdevànol, Girona



The sports facility in Girona consists of 2 tennis courts, which have been equipped with 12 Cruiser Arena LED luminaires. The aim of the project was to obtain an illuminance of 430Lx and a uniformity of 0.70.

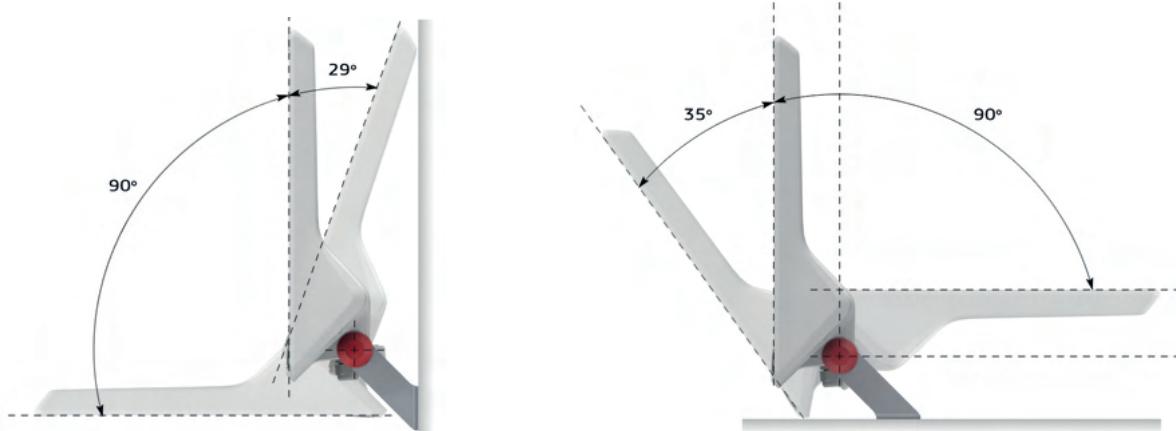
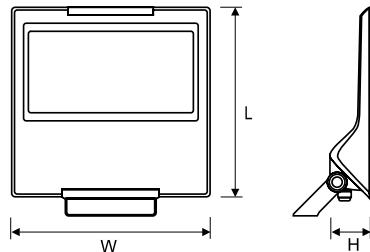


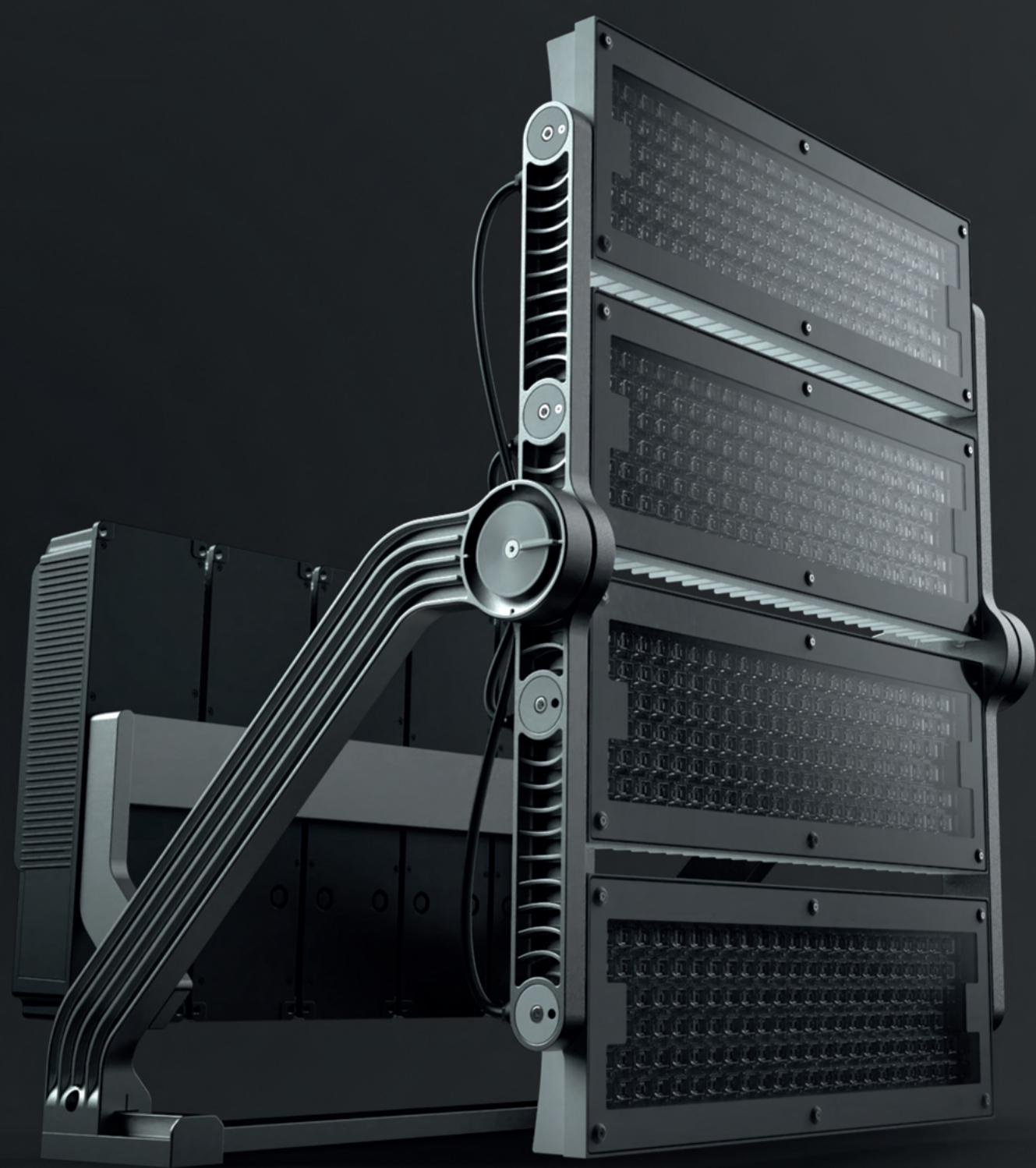




POWERLUG LED

	77 - 155		4000, 5700, 6500
	11 950 - 24 400		403 x 405 x 95
	bis zu 164 up to 164		8,8





Lighting system

PUMA

Coming soon 2023

