

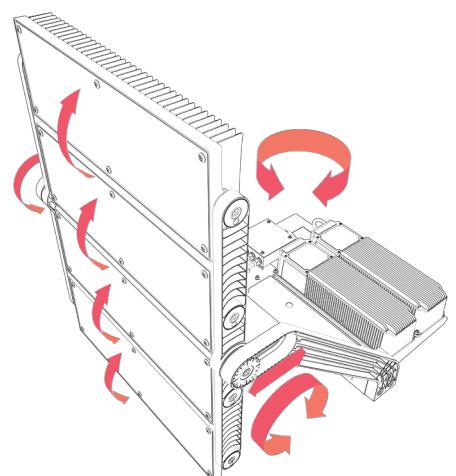
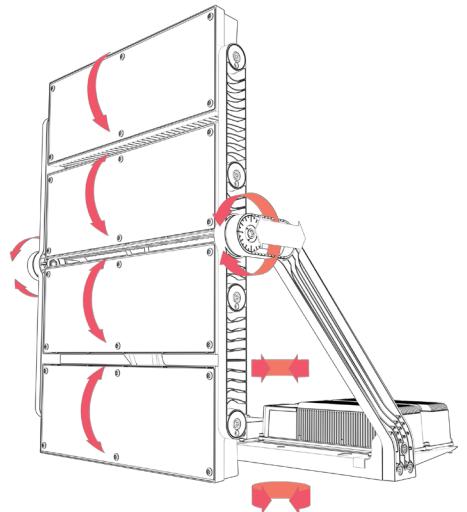
PUNA



PUMA - Powerful Unified Modular Agile

- professional floodlight for special assignments.

The PUMA floodlight family was created to illuminate the most demanding spaces, both in the segment of professional sports and infrastructure facilities, as well as in the broadly understood heavy industry. Stepless regulation of the angle of inclination, tilt of the modules in 4 axial plane, high efficacy, carefully designed optical system, wide range of lighting angles guarantee the achievement of the highest lighting parameters required by the standards imposed by organizations such as FIFA or UEFA. A well-thought-out design allowed the implementation of a stable mounting bracket and variants with both power supply on the body and on the cable, giving flexibility in design and installation work. Flexibility in the selection of luminous fluxes, color temperatures, color rendering index, control options give unlimited flexibility and versatility of use.





PUMA



PUMA - a professional and extremely effective floodlight designed to meet the most rigorous lighting requirements in sports facilities, thereby ensuring the best perception of the spectacle for both on site spectators and those watching on receivers. The functional mounting bracket, wide selection of light beams, along with dedicated optical systems, expand the range of applications for the luminaire to include airports, seaports, and heavy industry areas.



 **LUG**[®]

PUMA



In an era where environmental consciousness is no longer a choice but a necessity, sustainability takes center stage.

The sports world is embracing sustainability like never before. Stadiums, as iconic landmarks, are under increasing scrutiny to adopt greener practices. From energy-efficient utilities to waste reduction, the sports industry is leading by example.

At LUG, we understand the imperative of sustainability. That's why our stadium floodlights are designed to be more than just sources of illumination. They are beacons of change, designed to minimize environmental impact and enhance energy efficiency

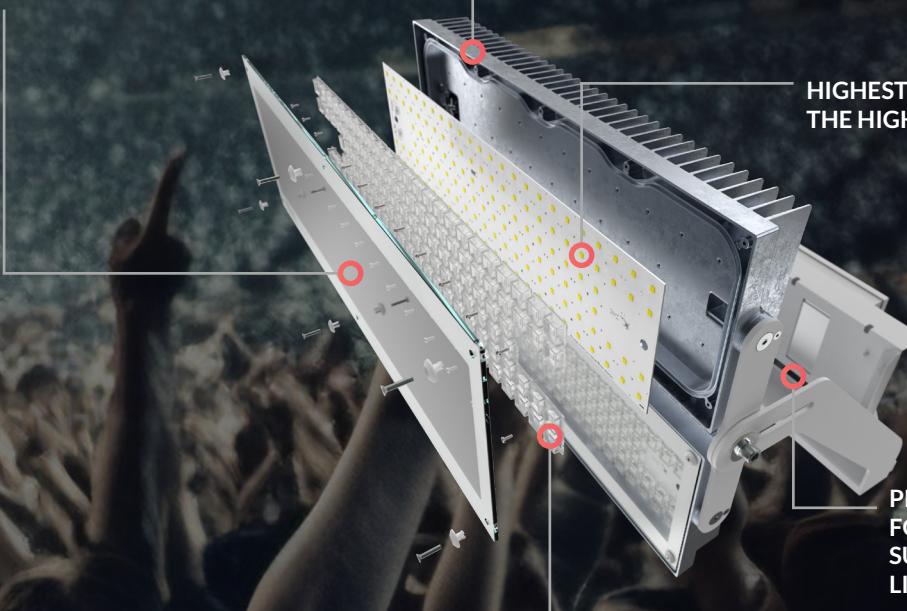
TEMPERED GLASS INCREASES THE STANDARD OF PROTECTION AGAINST MECHANICAL DAMAGE, EXTENDING THE LIFETIME OF THE FITTING AND LIMITING SERVICING TO A MINIMUM

HIGH QUALITY ALUMINIUM ALLOY MAKES THE BODY FULLY RECYCLABLE

HIGHEST QUALITY LED SOURCES TO ACHIEVE THE HIGHEST LIGHT EFFICACY

PROGRAMMABLE POWER SUPPLIES FOR OPTIMIZING ENERGY CONSUMPTION AND IMPROVING THE LIFETIME OF THE FIXTURE

ACCURATE OPTICAL SYSTEMS HELP CONTROL THE DIRECTION AND DISTRIBUTION OF LIGHT, REDUCING THE GLARE EFFECT - DARK-SKY FRIENDLY





PUMA

DEDICATED OPTICAL SYSTEMS.

Narrow optics, wide optics, narrow asymmetric optics, and wide optics adapted to various lighting areas.

CRI > 70, > 80, > 90 (TLCI > 90)

Colour rendering index (CRI) and Television Lighting Consistency both have impact on quality and comfort of transmitted image.

LUMINAIRE FLUX UP TO 282 000LM

It allows for achieving the required levels of illuminance and uniformity to meet the television broadcasting requirements in the highest image resolution.

FIFA, UEFA GUIDE COMPLIANT

The luminaire is prepared to operate in accordance with the standards and guidelines outlined by the leading sports organizations.



IP66, IK08

High tightness and resistance to mechanical impacts allow for the installation of luminaires in open and demanding spaces without the need for roofing.

DRIVERS

The well-thought-out design takes into account the possibility of mounting power supplies both on the luminaire bracket and inside the pole, depending on the needs and accessibility requirements.



PUMA

POWERFUL UNIFIED MODULAR AGILE



lumen package	47 500 & 64 700 lm
power	468 W
IK	08
IP	66
CRI	70,80,90
TLCI	>90
colour temperature	4000K, 5700K
beam angle	15°,25°,35°,55°
power supplies	ED / DALI coming soon / DMX coming soon

lumen package	95 000 & 129 000 lm
power	918 W
IK	08
IP	66
CRI	70,80,90
TLCI	>90
colour temperature	4000K, 5700K
beam angle	15°,25°,35°,55°
power supplies	ED / DALI coming soon / DMX coming soon



COMING SOON Q4 / 23



COMING SOON Q4 / 23

lumen package	142 000 & 194 000 lm
power	~ 1400 W
IK	08
IP	66
CRI	70,80,90
TLCl	>90
colour temperature	4000K, 5700K
beam angle	15°,25°,35°,55°
power supplies	ED / DALI coming soon / DMX coming soon

lumen package	190 000 & 258 000 lm
power	~ 1900 W
IK	08
IP	66
CRI	70,80,90
TLCl	>90
colour temperature	4000K, 5700K
beam angle	15°,25°,35°,55°
power supplies	ED / DALI coming soon / DMX coming soon

COLOUR RENDERING INDEX IN PROFESSIONAL BROADCAST



CRI
Color
Rendering
Index

TLCI
Television
Lighting
Consistency
Index

CRI - Color Rendering Index

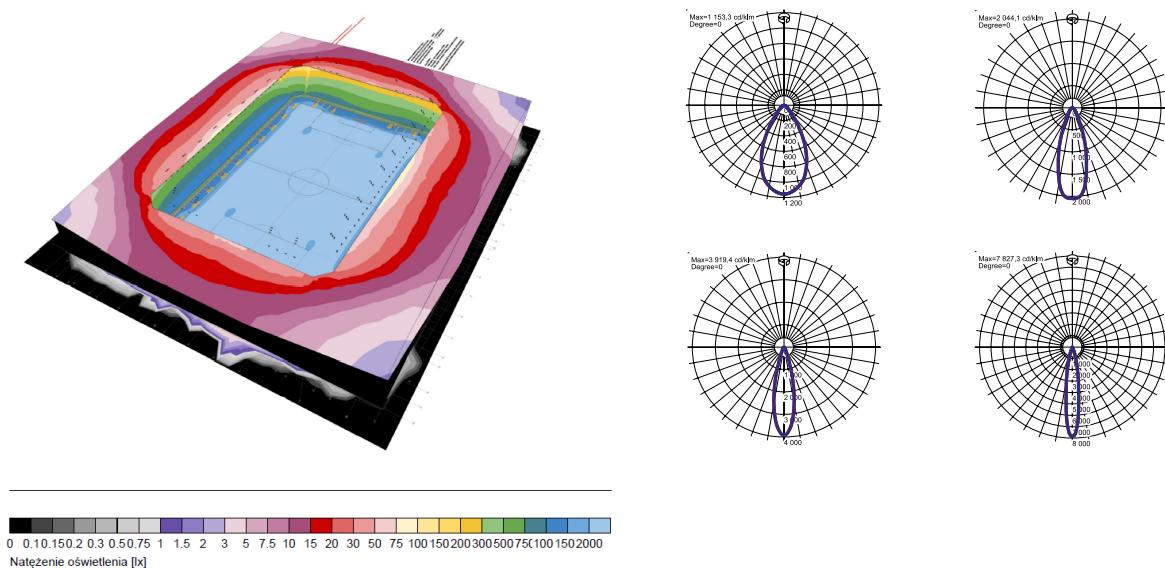
Color Rendering Index (CRI) is a quantitative measure of a light source's ability to faithfully render the colors of various objects when compared to an ideal or natural light source. The CRI ranges from 0 (monochrome light) to 100 (sunlight). CRI describes how the human eye perceives the colors of illuminated objects. The higher the CRI, the better the color reproduction.

TLCI - Television Lighting Consistency Index

TLCI (Television Lighting Consistency Index) - A term coined by the European Broadcasting Union (EBU) to describe the quality of the light emitted from fixtures used when recording images. The reference value is 100 and means that there is no need for any color correction caused by lighting imperfections. The lower the value, the more correction is required.

THE MAIN RECOMENDATIONS FOR BRODCASTED EVENTS

- Illuminance horizontal(Eh) min 1500 - 3000 lx and vertical (Ev) 2200 lx
- Illumination uniformity (U) min 0,7
- Glare (GR) <50
- Flickering <1%
- Color Temperature (CT) between 5000K - 6200K
- Color Rendering Index (CRI) >80 and in this case TLCI>90



The control system of our luminaires in the DMX protocol enables the creation of light scenes by remote control of the parameters of the luminaires (individually or in groups) such as: light intensity, starting individual units. Properly programmed algorithms will allow you to create a dynamic lighting show tailored to the needs of the moment.



LUG® PUMA

