



# Performance is everything

Midstream. Experts in sports lighting

 **MIDSTREAM**

SPORTS | AVIATION  
MARITIME | HORTICULTURE

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# About us and you

We’re dedicated to designing and delivering the most highly advanced, efficient and innovative LED sports lighting solutions.

These solutions are manufactured to the highest quality standards to provide long-lasting, best-in-class sports lighting. And our technology is specifically engineered for applications that solve the challenging and complex needs of the sporting world. Needs like:

- Reducing energy consumption.
- Cutting maintenance costs.
- Minimising environmental impact.
- All whilst vastly improving the quality of light.

That’s not all. We’re an innovation and knowledge hub that works with designers and architects on lighting design. Our hub is also there to educate and guide you through this technically challenging space.

## What we’ll bring to you

- Our **vast global knowledge, expertise, proven record of success and understanding of compliance needs** across all sectors, locations and climates.
- A **solution and design-driven approach** from retrofit projects to complex and critical greenfield solutions.
- We **own our product design and R&D teams and make continued investment in product development** – to ensure we’ve got the experience and flexibility to meet your demands.
- A team you can trust. Why? We’ve designed and **delivered 1,000s of global lighting solutions**. Who else can say that?
- **Exceptional customer support 24/7** for you, your consultants, contractors, and end-users whenever and wherever you need it. Just as you’d expect from the industry leader.
- **A network of qualified installers around the world**, to deliver projects turn-key, on time and on budget, with the highest level of workmanship.
- **European manufacturing** for the highest level of quality control & traceability, certification and fast delivery times.



## Experts in sports lighting

The lighting of stadia, arenas, and multipurpose venues demands the most intelligent luminaire technologies. Because, when the lights go on spectators, athletes, sponsors, and broadcasters expect total performance.

So, we've designed our bespoke high-definition solutions to deliver that performance and made them the perfect match for the technically challenging and complex needs of sports lighting.

Across the whole world of sports, from grassroots facilities to international sports stadia, we deliver world-class LED lighting solutions. We can do it for you too.



### We know performance is everything

Whether it's a prestigious sporting arena or a local football pitch, we make sure our lighting solutions perform – at 100%. Our in-house Lighting Design and Engineering teams create flawless LED sports lighting. Lighting that combines precision design, manufacturing, and expertise that's 2nd to none.

Beyond design, our team has unrivalled experience in installation supervision, project management, onsite aiming and commissioning and troubleshooting, so you get the support on the field, not just on a spreadsheet.

### We seek excellence across the board

Just like sportspeople around the world, peak performance is achieved by seeking excellence in everything we do. We, therefore, offer both the best-in-class and pioneering LED technology products alongside superior support and service – because both are as important as the other.

We constantly reinvest in research and development, making sure the products we offer always incorporate the latest technology, know-how, and processes. We also lead the industry with our client partnership strategy to develop products suited to the task and sector they are designed for, with innovation and reliability at the forefront of our solutions.

### Quality – always at the heart of what we do.

Our products are manufactured to the highest quality at sites in both the UK and Europe. All metal parts are laser cut, bent and painted on-site. All finished products undergo end-of-line testing before being packed and shipped.

We also have full component traceability across all our sites. We operate an audited ISO 9001, 14001 and 45001 Integrated Management System, which means we continually monitor and improve our processes. We're also certified to ENEC (Europe) and UL (USA) requirements. Plus, we've always passed any facility audits by independent certification bodies.

### This means you can trust us to:

- Reduce your energy use.
- Cut maintenance costs.
- Minimize any environmental impact.
- Meet local or international regulations.
- And of course, vastly improve the quality of your lighting, helping to improve player performance.



# Unrivalled sector expertise

We understand the needs and environments of all kinds of sporting facilities can and do vary greatly. For example:

- **In the case of everyday sporting venues subject to daily use**, reliability and cost are paramount in delivering efficient, economic, and reliable long-term lighting solutions.
- **Professional and high-level sports stadiums** need the very best LED technology and sophisticated lighting solutions. After all, when you're watching any great event – live or on TV – it must be crystal clear.
- **For aqua centres, leisure pools, indoor and outdoor training pools** a different set of challenges can arise due to their demanding atmospheric conditions. These facilities need lighting that's high-quality, trouble-free, waterproof and long-lasting. It also needs to be robust enough to withstand both humidity and the potentially corrosive effects of chlorinated water.
- **Golf driving ranges** are frequently a key supplementary source of income for many golf clubs. So, effective, low-cost and low-maintenance lighting is essential to maximise the range's availability to customers – and the club's revenue. Midstreams proprietary optics also have the advantage of extending the lighting distance, meaning illumination covers the entire length of the driving range with fewer luminaires required.
- **Show jumping, evening race meets, gymkhanas, dressage, and many other equestrian disciplines** demand artificial LED lighting solutions that give them more time for hosting events and training. This helps them be more flexible when it comes to scheduling and helps increase their revenue too.
- **Ice rinks and indoor arenas** require high quality lighting that emit the least heat and can deliver high definition and colour rendering. With no natural light, lighting is used during the day as well as the evenings and the light spectrum must remain stable throughout the lifetime of the luminaire.
- **Motor Sports events** continue to evolve with many organisations running night races on a more frequent basis. Only the best LED lighting technology can be used for these challenging sporting spectacles, with the safety of drivers paramount glare must be eliminated completely, whilst the entire track must be perfectly lit. Add in TV audiences around the globe and only the most advanced and experienced solution will do.



## Full-service sporting solutions

Sports and stadia lighting with LED technology needs the right products and level of expertise to deliver results that meet design specifications and regulations.

Our high-power LED sports lighting products allow us to deliver projects to the most exacting specifications. Whether working to FIFA or UEFA rules, or to local government or sporting bodies' regulations, we know and meet what's needed.

And our experienced teams have a deep level of knowledge and combined expertise across all manner of high-power, full turnkey lighting solutions for the sports sector. They're always developing innovative, sports-specific, high-power LED lighting products too. So, where high standards and efficiency are needed, we deliver a quality solution that gives you more, for less – making us the right choice for your next project.





## Solutions that work for you

### We offer:

- Full turnkey solutions. From start to finish we've got you covered, whether you're in the design or planning phases, product supply or installation.
- Extended service and warranty.
- Best-in-class product innovation.
- New build and easy retrofit solutions.
- The highest standards for all – from smaller facilities or the largest stadia.
- Guaranteed quality via European and US manufacturing and standards control.
- Proven energy savings to support your environmental goals.
- Reduced maintenance and downtime.
- Fully integrated solutions for remote control and management.
- Significant energy savings vs Metal Halide CAPEX from reduced power connection costs.
- Reduced backup generator need.
- Smart control capability and dimming functions and light shows with DALI or DMX controls.
- Robust construction for all-weather play.
- Instant-on/instant-off and hot restrike.
- All sports governing bodies including, FIFA, UEFA, FIBA, FIH, MLB, IBAF, and ITF design compliance.



# Partnering for sporting success

How we can help you achieve your goals



As the industry leader, helping you achieve your goals is, and has always been our priority and that's why we have a dedicated project manager from day one on your project.

## Lighting design – we get it right the first time, every time

We provide expert lighting design services right from the start of a project – free of charge. Even if your requirements change as the project develops, we won't charge you.

Our design services cover everything from the initial design consultations – including specifications, rendering, layout planning, photometrics, energy efficiency calculations and much more.

We're happy to work with your consultants, partners, operational managers, engineers and whoever else has to input to the project. After all, creating the perfect sports venue lighting is a real team effort.

Planning applications, working with you to write, submit and achieve planning permission from the local authorities.

## Installation – no hassle and no wasted time

To make sure your venue installation goes smoothly, our expert engineers and supervisors can be on-site from start to finish.

Our installation teams have years of experience across all our sectors – especially sports lighting. So, whatever the project or installation needs, we'll be able to support you at every stage. This includes everything from mast installation, fitting and assembling the lighting, lux surveys, compliance checks and beyond – wherever your project is located and whatever the environment.



## Training and Education – getting your team up to speed

Many of the sectors we work in have very strict safety regulations – not just for the installation stage but for the final solution too. So, our experienced team is on hand to support you. Whether a client, partner, architect, consultant or engineer, we've got your back.

We offer a range of training and educational courses to support both our product and sector partners. From technical training on our product range to installation guidance or photometric testing guides and more, we'll be there for you.

## Maintenance and warranty – protecting your investment

The great thing about sports LED lighting is it requires far less maintenance. It's important though that you protect your investment to maximise the life span of your lighting and your return on investment. This is especially true in sectors like sport where compliance and regulations come into play. So, our Sports Lighting Warranty lasts for 10 years!

## Advising and consulting – let us help you make the right choice

We've got many years of in-depth experience across the sports sector, and a very experienced management and advisory team. So, we can support and advise you at any time. Whether for a completely new project or to look at existing solutions, just let us know.

## Financing – getting you to the finish line

We can provide you with project financing solutions for your sports lighting projects. Through our approved financing plans we can help you to manage any budgetary concerns or hurdles.

# Our products & control solutions

## A winning package

We have a range of 1st class products that can be tailored to your specific sporting venue needs. These include:

### The Modus R Series

#### FOR SPORTS STADIA

- A lightweight, high-power floodlight designed specifically for sports venues.
- Remote mounted drivers allow for ease of access.
- Available in 90CRI for the highest definition broadcasting.
- Delivers up to 150,000 lumen to meet the requirement of world class facilities.
- Integrates with wired or wireless controls (DMX, DALI, 1-10v).
- Robust construction with advanced materials to survive the harshest environments.



### The Modus S Series

#### FOR SMALL AND MEDIUM-SIZED SPORTS AREAS

- Offers a high lumen package with limited weight minimising the number of floodlights required per pole.
- Choice of proprietary optics for superior light control.
- Designed to specifically reduce light spill for neighbours and residents providing an ideal solution for areas such as community / inner city facilities.
- Manufactured for easy retrofit onto existing structures.
- Remote mounted drivers allow for ease of access.
- Designed to support wireless control.



### The Atlas R Series

#### FOR LARGE SPORTS AREAS

- UL certified and DLC listed.
- Built in remote drivers provide a high light to weight ratio.
- Can be delivered with 90CRI for ultra-high definition TV broadcasting.
- A great retrofit solution for 2kW metal halide floodlights.
- Stainless steel construction, critical for use in challenging sporting environments to improve structural integrity and life of product.
- Extruded heatsinks delivers best in class thermal dissipation for high performance and long life.



### The importance of control

There are a number of key factors to focus on when it comes to control. These are:

- **Glare control** – this must take centre stage. So, the choice of the luminaire needed has to be carefully considered.
- **Energy savings** – being able to manage the times the lights are used, and when, helps save money, energy, and the environment.
- **Light dimming** – when optimised with lighting controls, our LED lighting solutions can regulate the light levels to the sport or activity. For instance, if the space is also used at an elite level it's usual for television broadcasts to require more light than might be needed solely for the sport in question.



# The Modus R Series

## Overview

A lightweight, extremely versatile product engineered for both retrofit and newbuilds. Low glare, broadcast-ready, flicker-free LED floodlight designed specifically for sport, field and large area lighting. Remotely mounted single IP67 electronic control gear for ease of installation, driving up to 216 LEDs with multiple photometric distributions.

Feature rich dynamic controls and remote monitoring capability provides a highly scalable solution, for a high-end user experience in UHD and super slow-motion conditions.

### Applications

- Stadiums
- Arenas
- Football Field
- Rugby Field
- MUGA Pitch
- Hockey Field
- Basketball Court



A lightweight, extremely versatile product designed for both retrofit and new builds.



### Features and benefits of the Modus R Series:

- Manufactured with a stainless steel construction that improves structural integrity and life of product a critical need when used across sporting environments.
- Modular design allowing for versatile and tailored applications and solutions.
- High lumen package delivering up to 144,000 lumens to meet the requirement of world class sporting facilities.
- Integrates with wired or wireless controls including DMX, DALI and 1-10v solutions to provide the ultimate in lighting control for event light shows or dimming.
- Highly versatile asymmetric or symmetric distribution for use in a wide range of sporting applications.
- A heavy duty, extruded aluminum proprietary designed heat sink allows for highly efficient heat dissipation due to it's large surface area compared to a dye cast design. LED formation is improved providing a low level of lumen degradation extending life and quality in a whole range of environments, from high heat to extreme cold.
- Designed as standard with an integrated 2 step surge protection up to 15kA / 20kV which protects the luminaire against power surges meaning more reliability and longer performance.
- Certified IP 67 for highest level of ingress protection
- Easy 1 vs 1 replacement / retrofit solution for 2kW metal halide floodlights.
- Single remote driver that is outdoor rated for ease of installation and maintenance.
- Manufactured as standard with specialist light shields to control light spill, reduce glare and increase uniformity.
- Ceramic plated metal-core PCB with latest generation Cree (USA) 90 CRI chips for enhanced performance, which is especially important for UHD TV and slow motion cameras.
- Manufactured in Europe



# The Modus R Series

## In detail

### Products

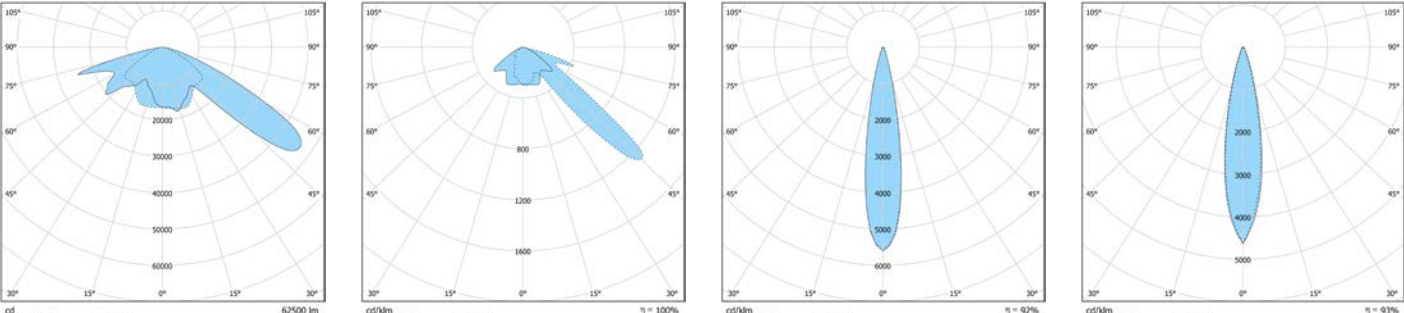


Modus R 800



Modus R 1200

### Photometrics

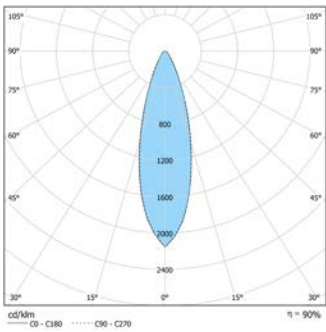


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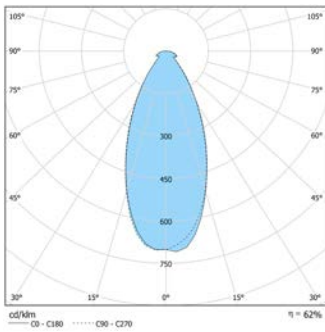
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S1

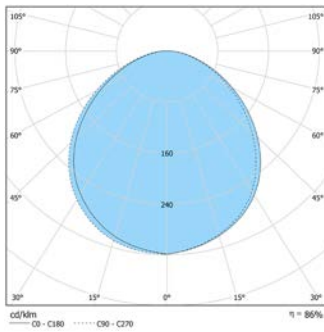
S2



S3



S4



S5

### Technical specs

	R800	R1200
PERFORMANCE		
Luminaire Output	Up to 96.000lm	Up to 144.000lm
Power Absorption	800w	1200w
Lumen Maintenance [L80 B10]	77.000h	77.000h
Lumen Maintenance [L70 B50]	122.000h	122.000h
OPTOELECTRONICS		
CRI	70 - 80 - 90	
Colour Temperature	3000K Warm White / 4000K Neutral White / 5000K Pure White / 5700K Cool White	
Secondary Optics	Weather proof, Anti-yellowing PMMA refraction matrix	
No of LEDs	144	216
LUMINAIRE BODY		
Chassis and Bracket	Stainless Steel	
Metal Finish	Powder Coating	
Heatsinks	Anodized Extruded Aluminium (Copper Content <0.1%)	
Bracket	Angled Reversible bracket, M20 or 2 x M16 Fixing points	
Weight	19.5 kg	26 kg
Dimensions (L-W-H)	416 - 389 - 236 mm	631 - 389 - 245 mm
Protection Level	IP67	IP67
Impact Resistance	IK09	IK09
Windage EPA	0.179 m²	0.27 m²
DRIVER UNIT		
Dimensions (L-W-H)	398 - 230 - 152 mm	
Weight	9 kg	
Protection Level	IP67	
ELECTRONICS		
Voltage input	200-480 VAC 50-60Hz	
Active Power F.C.	0.97	
Surge Protection	10kV line-earth, 6kV line-line	
Insulation Class	IEC Class I	
Short Circuit Protection	Auto-recovery	
Over Heat Protection	Drops output current	
OPERATING CONDITIONS		
Working Temperature	-40°C / +50°C	
Humidity Range	0% - 94%	

### Ordering codes

FAMILY	POWER	OPTIC	CCT	CRI	VOLTAGE INPUT	CONTROL SYSTEM	VISOR	
MR (Modus R)	08	FH	A (5000k)	70	EU (200-480 VAC)	10 (0-10v)	Sx ( Visor for S Optics)	
	12	FV	B (4000k)	80		DA (DALI)	Fx (Visor for F Optics)	
		S1	C (3000K)	90		DX (DMX)	00 (No Visor)	
		S2	D (5700k))					
		S3						
		S4						
		S5						

The product family can be tailored to the specifications outlined above. Example ordering code: MR-08-S1-A-70-EU-10-00

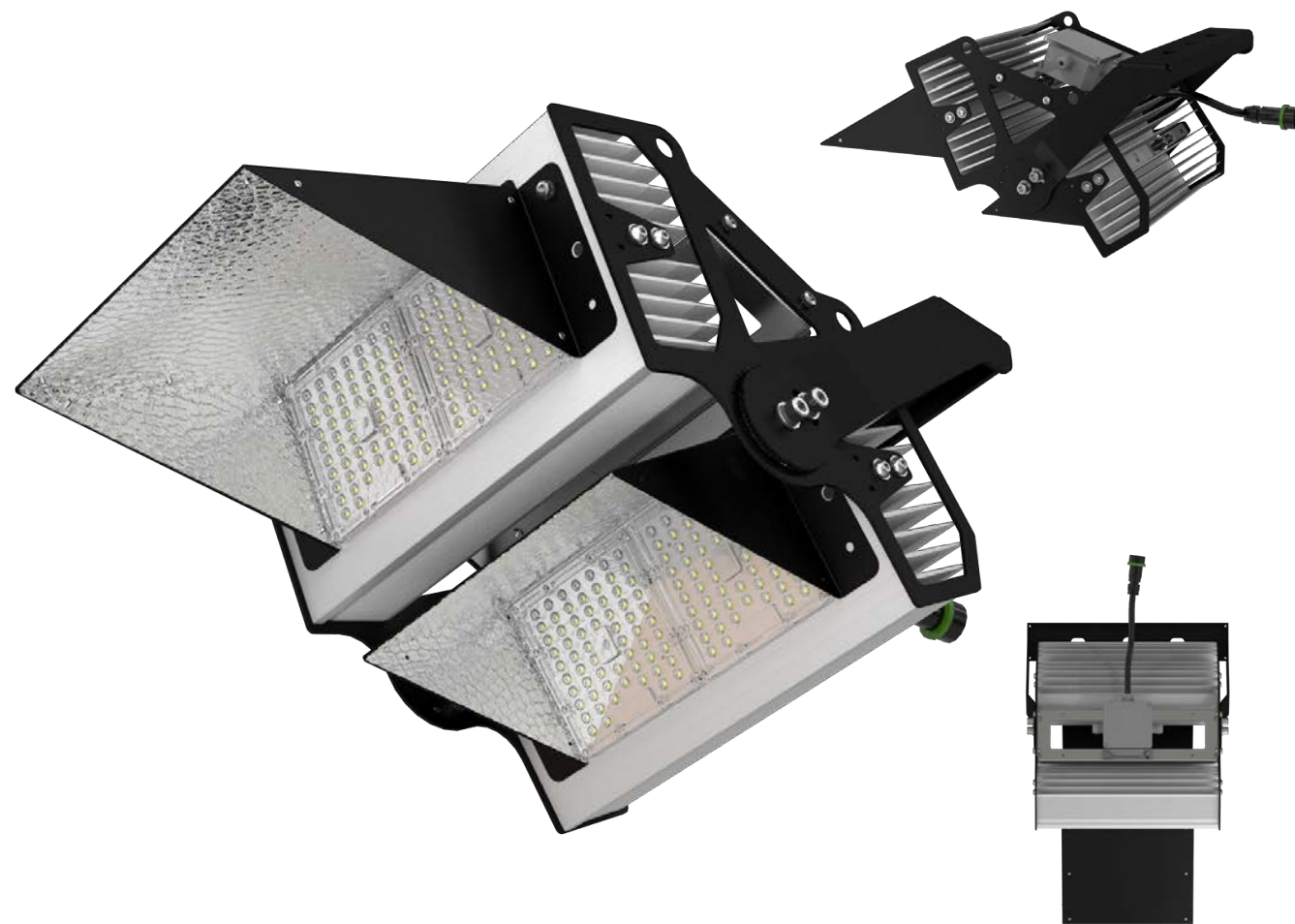


# The Modus S Series

## Overview

The Modus S Series is built for small to medium-sized sports applications and offers high lumen packages with limited weight.

It minimises the number of floodlights required per pole at the most competitive price. It can be used for both retrofit and new builds and meets industry standards and specifications across the applications it's used for.



Modus S 900

Designed to specifically reduce light spill.



### Applications

- Small and Medium-Sized Sport Facilities
- Public Football Field
- Public Rugby Field
- MUGA Pitch
- Hockey Field
- Tennis Courts

### Key Features

- Designed with specialty light shields to provide high uniformity for sports fields and facilities as well as to specifically reduce light spill for neighbours and residents providing an ideal solution for areas such as community and inner city facilities
- Features a newly developed proprietary light engine that delivers up-to 30% higher efficiency compared to previous series.
- The 2 module configuration design allows the use of multiple optics in order to optimize the light beam for each field type and installation height.
- Offers a high lumen package with limited weight minimising the number of floodlights required per mast.
- Equipped with remote drivers for flexible installation and weight saving.
- Manufactured with a reversable angled bracket that allows for seamless retrofit on existing masts, in both overhang and underhung configuration.
- Designed to support wireless control.
- Manufactured with a stainless steel construction that improves structural integrity and life of product a critical need when used across sporting environments.
- Midstream proprietary optics deliver full compliance to spill light regulations
- IP67 Rated



# The Atlas R Series

## Overview

The Atlas R series is a highly efficient LED floodlight designed specifically for large area sports and stadia lighting. It offers a very high lumen packages with limited weight and is built with remote driver capability, a mounted single IP67 electronic control gear for ease of installation and can be used for both retrofit projects and new builds.

The body is made from recyclable, extruded aluminium and powder-coated stainless steel and the optic enclosure has PMMA weather-proof lenses and anti-reflective tempered glass screen. It is simply High quality and high performance.

The Atlas R Series is also a perfect solution for the North American market; complying with the requirements of UL1598.

### Applications

- Large Sports Stadiums
- Large Sports Arenas



Modular design allowing for versatile and tailored applications and solutions.



### Features and benefits of the Atlas R Series:

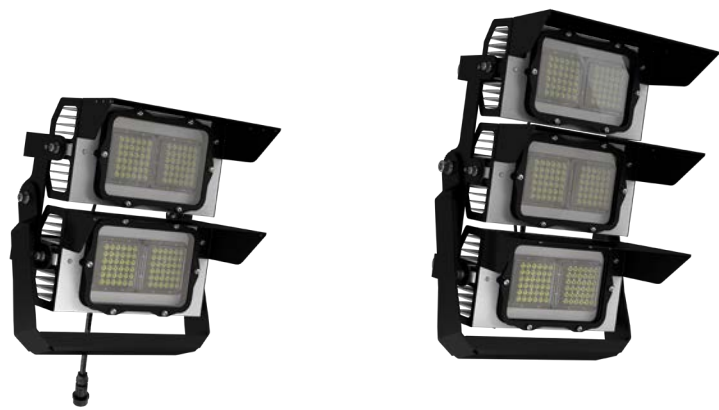
- UL certified and DLC listed.
- Manufactured with a stainless steel construction that improves structural integrity and life of product a critical need when used across sporting environments.
- Modular design allowing for versatile and tailored applications and solutions.
- High lumen package delivering up to 144,000 lumens to meet the requirement of world class sporting facilities.
- Integrates with wired or wireless controls including DMX, DALI and 1-10v solutions to provide the ultimate in lighting control for event light shows or dimming.
- Highly versatile asymmetric or symmetric distribution for use in a wide range of sporting applications.
- A heavy duty, extruded aluminum proprietary designed heat sink allows for highly efficient heat dissipation due to it's large surface area compared to a dye cast design. LED formation is improved providing a low level of lumen degradation extending life and quality in a whole range of environments, from high heat to extreme cold.
- Designed as standard with an integrated 2 step surge protection up to 15kA / 20kV which protects the luminaire against power surges meaning more reliability and longer performance.
- Certified IP 67 for highest level of ingress protection
- Easy 1 vs 1 replacement / retrofit solution for 2kW metal halide floodlights.
- Single remote driver that is outdoor rated for ease of installation and maintenance.
- Manufactured as standard with specialist light shields to control light spill, reduce glare and increase uniformity.
- Ceramic plated metal-core PCB with latest generation Cree (USA) 90 CRI chips for enhanced performance, which is especially important for UHD TV and slow motion cameras.
- Manufactured in Europe



# The Atlas R Series

In detail

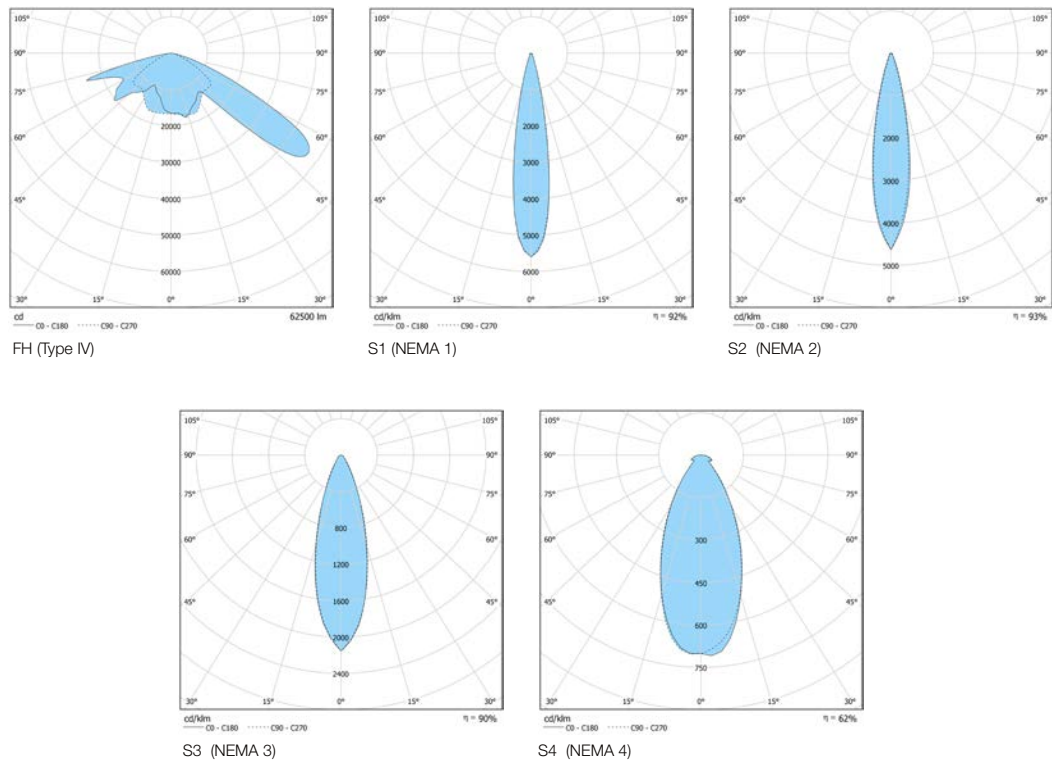
## Products



Atlas R 800

Atlas R 1200

## Photometrics



## Technical specs

	R800	R1200
<b>PERFORMANCE</b>		
Luminaire Output	Up to 96.000 lm	Up to 144.000 lm
Power Absorption	800w	1200w
Lumen Maintenance [L80 B10]	77.000h	77.000h
Lumen Maintenance [L70 B50]	122.000h	122.000h
<b>OPTOELECTRONICS</b>		
CRI	70 - 80 - 90	
Colour Temperature	3000K Warm White / 4000K Neutral White / 5000K Pure White / 5700K Cool White	
Secondary Optics	Weather proof, Anti-yellowing PMMA refraction matrix	
Protective Screen	4mm Tempered Glass	
No of LEDs	144	216
<b>LUMINAIRE BODY</b>		
Chassis and Bracket	Stainless Steel	
Metal Finish	Powder Coating	
Heatsinks	Anodized Extruded Aluminium (Copper Content <0.1%)	
Bracket	Yoke Bracket (Central Bolt 3/4")	
Weight	46 lb	66 lb
Dimensions (L-W-H)	16.4 - 15.3 - 9.3 in	24.9 - 15.3 - 9.6 in
Protection Level	IP67 - UL1598 Suitable for Wet Locations	IP67 - UL1598 Suitable for Wet Locations
Impact Resistance	IK09	IK09
Windage EPA	1.93 ft²	2.91 ft²
<b>DRIVER UNIT</b>		
Dimensions (L-W-H)	15 - 9 - 6 in	
Weight	19 lbs	
Protection Level	IP67 - UL1598 Suitable for Wet Locations	
<b>ELECTRONICS</b>		
Voltage input	277-480 VAC 50-60Hz	
Active Power F.C.	0.97	
Surge Protection	10kV line-earth, 6kV line-line	
Insulation Class	IEC Class I	
Short Circuit Protection	Auto-recovery	
Over Heat Protection	Drops output current	
<b>OPERATING CONDITIONS</b>		
Working Temperature	-40°C / +130°F	
Humidity Range	0% - 94%	

## Ordering codes

FAMILY	POWER	OPTIC	CCT	CRI	VOLTAGE INPUT	CONTROL SYSTEM	VISOR
AR (Atlas R)	08	FH (Type IV)	A (5000k)	70	US (200-480 VAC)	10 (0-10v)	Sx ( Visor for S Optics)
	12	S1 (NEMA 1)	B (4000k)	80		DA (DALI)	Fx (Visor for F Optics)
		S2 (NEMA 2)	C (3000K)	90		DX (DMX)	00 (No Visor)
		S3 (NEMA 3)	D (5700k)			CW (Synapse Wireless)	
		S4 (NEMA 4)					
		S5 (NEMA 6)					

The product family can be tailored to the specifications outlined above. Example ordering code: AR-08-S1-A-70-US-10-Sx





CASE STUDY

# Dulwich Hamlet FC

In 1893 two keen young footballers went to Lorraine ‘Pa’ Wilson with one shilling and eight pennies in their pockets and asked him to set up a football club. Dulwich Hamlet FC was born. Since then the team has had its share of success and disappointment. It’s dipped in and out of the Isthmian League Premier Division. But, it also won the FA Amateur Cup three times. And, it was recently promoted to the National League South.

## The challenge

2019 was a great year for Dulwich Hamlet FC and its fans. A long-running dispute about ownership of the Champion Hill ground been resolved, and it had won promotion to a new league. However, this success came with new challenges to face.

- The metal-halide lamps at the ground weren’t up to the National League South’s requirements. So, they needed to be replaced.
- As a small, fan owned club, it works under certain budgetary constraints.

**Sector:** Sport

**Customer:** Dulwich Hamlet FC

**Club founded:** 1893

**Stadium capacity:** 3000

**Number of masts:** 4

**Project date:** 2019

**LED floodlights installed:** 20

**Type:** Modus Series

**Increase in light levels:** 120 to 220 Lux

**Lux average values:** 220 Lux

## Our solution

As the club’s budget was very tight, a retrofit approach was the only way to go. This meant we had to stay within the limits of the ground’s four current lighting masts. To achieve this, we fitted the masts with our Modus series – one of the lightest on the market. This solution has not only met the National League South’s regulations, it’s also delivered significant operational, maintenance, and energy savings – a huge boost for the club.

## Before and after technical comparison

	SODIUM	LED
Number of projectors	24	20
Nominal power for single appliance	2 kW	1.2 kW
Average light level	120 Lux	220 Lux
Uniformity	0.6	0.75



## CASE STUDY

# Hanwood Sports Centre



The Hanwood Sports Centre in Belfast, Northern Ireland, is a sports and fitness club that forms an integral part of the local community. With a full suite of sporting facilities that include a 3G sports pitch and a fitness suite.

### The challenge:

With a growing list of members and sporting events taking place the pressure was on for Hanwood to future proof their sporting facilities whilst finding a way reduce costs. The challenge for them was that the centre's floodlighting masts were extremely old, the power supply was limited, and the existing electrical infrastructure was not fit-for-purpose any longer.

We worked to deliver a new, world-class lighting solution tailored specifically to the requirements of Hanwood.

**Sector:** Sport

**Customer:** Hanwood Sports Centre

**Number of masts:** 6

**Project date:** 2019

**LED floodlights installed:** 16

**Type:** Modus R1200

**Lux average values:** 215 Lux

**Uniformity:** 0.67

### Our solution

This was a challenging retrofit project that involved keeping the mast infrastructure in place and just re-heading the existing masts with new floodlights. We replaced the original Metal Halide solution with 16 Modus R1200 floodlights spread across the 6 masts.

The solution was a perfect balance, not only because we managed to hit the light levels required but we did so with a solution that was lightweight enough to sit on the existing masts. The club now has a first-class future proof lighting solution as well as reducing maintenance and energy consumption costs.

### The Modus R Series used at Hanwood Sports Centre

- A lightweight, high-power floodlight designed specifically for sports venues.
- Manufactured with a stainless steel construction that improves structural integrity and life of product a critical need when used across sporting environments.
- Single remote driver that is outdoor rated for ease of installation and maintenance.
- Modular design allowing for versatile and tailored applications and solutions.
- Delivers up to 144,000 lumen to meet the requirement of world class facilities.



## CASE STUDY

# Rosegreen Community Development



The Gaelic Athletic Association is an integral part of the Rosegreen community. The club at Rosegreen was launched in 1955, and in the early days was very successful.

However, in the 60s the club went into decline – partly due to emigration to England and the USA – and it closed in 1970. But, thanks to a population increase in the late 70s, the club reopened in 1981.

## The challenge

As part of the community development a new-build sports facility needed to be constructed. We worked with a premier Pitch Contractor, a specialist artificial grass pitch company, to deliver this new addition for Rosegreen.

**Sector:** Sport

**Customer:** Rosegreen Community Development

**Club founded:** 1955

**Number of masts:** 4

**Project date:** 2020

**LED floodlights installed:** 20

**Type:** Modus R1200

**Increase in light levels:** N/A – new build

## Our solution

The design we created for the new-build included the supply and erection of four 18m floodlighting masts. A total of 20 Modus R1200 floodlights were then attached to these masts..

## The Modus R Series used at the Rosegreen Community Development

- A lightweight, high-power floodlight designed specifically for sports venues.
- Manufactured with a stainless steel construction that improves structural integrity and life of product a critical need when used across sporting environments.
- Single remote driver that is outdoor rated for ease of installation and maintenance.
- Modular design allowing for versatile and tailored applications and solutions.
- Delivers up to 144,000 lumen to meet the requirement of world class facilities.



CASE STUDY

# Thongsbridge Tennis



When it opened just after the end of World War 1, Thongsbridge Tennis Club had just two grass courts, a wooden pavilion, and an outside toilet on its seven-acre site. It has now grown and has four acrylic courts, seven all-weather outdoor courts, and two tarmac mini courts. One of the most dynamic, forward-thinking, and growing clubs in the North East, Thongsbridge has also welcomed international stars such as Illie Nastase, Martina Hingis, and Pat Cash.

## The challenge

As a growing club, Thongsbridge needed to make sure it was able to maximise the use of all its courts to fulfil the demands of its members and to capitalise on revenue opportunities. It also needed to meet the full standards set by the Lawn Tennis Association.

**Sector:** Sport

**Customer:** Thongsbridge Tennis Club

**Club founded:** 1918

**Project date:** 2020

**LED floodlights installed:** 20

**Type:** Modus R1200

**Increase in light levels:** 25%

**Lux average values:** Over 500 Lux on the principal playing areas and 400 Lux on the total playing area.

## Our solution

Working with one of our partners in the UK, who completed the installation, we designed a lighting scheme that meant the new floodlights could be retrofitted to the existing structures at the club. Combined with a new control solution, the floodlighting not only met the club’s challenges, it helped save energy and money too.

## Before and after technical comparison

	SODIUM	LED
Number of projectors	20	20
Nominal power for single appliance	2,000W	1,200W
Average light level	300 Lux	500 Lux
Uniformity	Unknown	0.7+





MIDSTREAM LED SPORT CASE STUDY

# Barnet FC

Established in 1888, Barnet FC, or the Bees as they're affectionately known, has had its share of highs and lows. The highs include winning the Athenian League seven times. The lowest period being its 26 years as a non-league team. The club has a historic claim to fame as the host of the first ever live TV broadcast football match in 1946. Ironically, as we weren't around at that time, the match had to be stopped 30 minutes in the second half because of poor lighting.

## The challenge

In 2019, Barnet FC came to us because its lighting had reached the end of its life and was subject to constant failure and high maintenance costs. It also wanted to make energy savings, reduce its environmental damage, and improve its lighting overall. Association.

**Sector:** Sport

**Customer:** Barnet FC

**Club founded:** 1888

**Stadium capacity:** 6,500

**Project date:** 2019

**LED floodlights installed:** 32

**Type:** Modus R1200 and Titan Series

**Increase in light levels:** 25%

**Uniformity:** 0.80

**Energy Savings:** 20.8kw per hour

## Our solution

As the Hive is a relatively new stadium, the majority of the existing infrastructure to carry our lighting was already in place. So, just retrofit solutions for the club's two pitches, car park, and access road were needed. And new lighting was installed for a footpath. To meet Barnet's objectives, we used our Modus R1200 lighting for the sports pitches and our Titan series for the remaining areas.

## What this has meant for Barnet FC:

- The improvements to the training areas mean the club can maximise their use at all times of the day across the entire season.
- When not being used by the club, the facilities generate revenue for the Barnet by letting them out to the local community.
- And the upgraded system is far more energy-efficient than the previous solution, saving the club costs and making the facilities far more environmentally friendly.
- park, and access road were needed. And new lighting was installed for a footpath. To meet Barnet's objectives, we used our Modus R1200 lighting for the sports pitches and our Titan series for the remaining areas.



## Our experience

The Midstream team has amassed many years of experience in pioneering floodlighting solutions across the sports sector and other industries.

Just some of the sporting projects members of our team have worked on include:

### Stadiums:

- Norwich City
- West Bromwich Albion
- Bristol City
- Fleetwood Town
- Rotherham United
- Shrewsbury Town
- Doncaster Rovers
- Burton Albion
- Tranmere Rovers
- Salford City
- Plymouth Argyle
- Mansfield Town
- Scunthorpe United
- Morecambe
- Kilmarnock
- Ross County
- Alloa Athletic
- Inverness Caledonian Thistle
- Notts County
- Barnet FC
- Northampton Saints RFC
- Exeter Chiefs RFC
- Gloucester RFC
- St Helens
- Warrington Wolves

### Training Grounds:

- Leicester City
- Chelsea
- Manchester City
- Arsenal
- Manchester United
- Stoke City
- Tottenham Hotspur
- Everton
- Southampton
- Norwich City
- West Bromwich Albion
- England (St Georges Park)

### Horseracing:

- Kempton Park Race Course

### Cricket Stadiums:

- Lords
- Oval
- Trent Bridge
- Edgbaston
- Headingley
- County Ground Leicester
- Kent Cricket Ground

### Olympic Games:

- Eaton Valley Tennis
- Eaton Valley Hockey
- Lee Valley Athletics - Training Centre
- Perry Barr BMX Track

### Golf:

- St Andrews



Midstream is the first choice for customers who cannot compromise on quality and reliability.



### For more information:

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