



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. 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. We've designed and **delivered thousands of global lighting solutions.**
- **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 turnkey, 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. When the lights go on spectators, athletes, sponsors, and broadcasters, expect total performance.

We design bespoke high definition solutions to deliver on performance and make 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.

Beyond design, our team has unrivalled experience in installation supervision, project management, onsite training 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
- Minimise any environmental impact
- Meet local or international regulations
- 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. Effective, low-cost and low-maintenance lighting is essential to maximising the range's availability to customers – and the club's revenue. Midstream's 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.
- **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.

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. 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 from start to finish.

Our installation teams have years of experience across all our sectors – especially sports lighting. 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. Our experienced team is on hand to support you.

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.

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. 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. We can support and advise you at any time. Whether for a completely new project or to look at existing solutions.

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
- 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 Modus 450

FOR SMALL AND MEDIUM-SIZED SPORTS AREAS

- A lightweight, high-power floodlight designed for sports venues
- Delivers up to 55,000 lumen
- Fully reversible mounting bracket for retrofitting to any existing infrastructure or new build
- Integrates with wired or wireless controls (DMX, DALI, 0-10v)
- Robust construction with advanced materials to survive the harshest environments



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. 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 Fields
- Rugby Fields
- MUGA Pitches
- Hockey Fields
- Basketball Courts



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 180.000 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 its 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 two-step surge protection up to 15kA / 20kV which protects the luminaire against power surges meaning more reliability and longer performance.
- Certified IP67 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 R800



Modus R1000

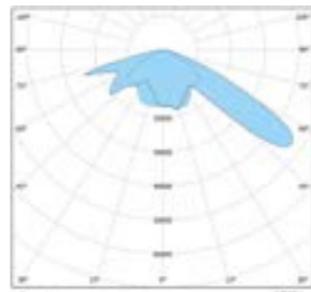


Modus R1200

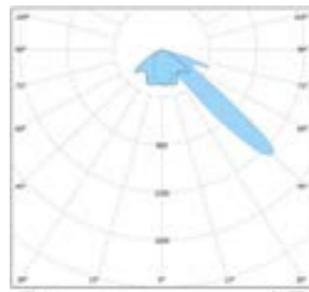


Modus R1500

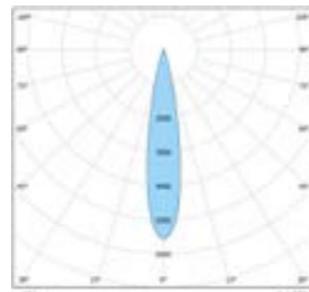
Photometrics



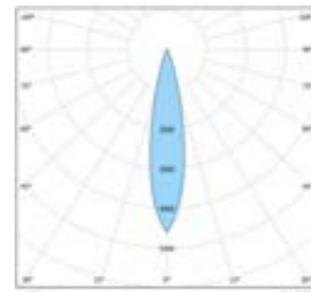
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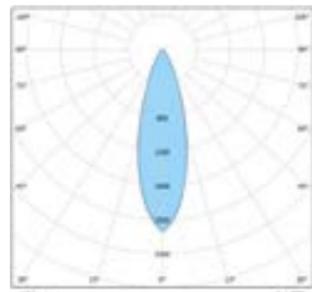
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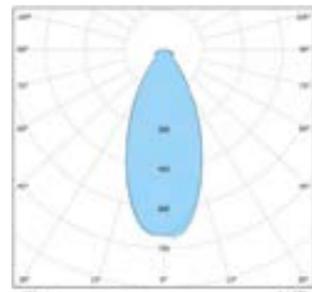
S1



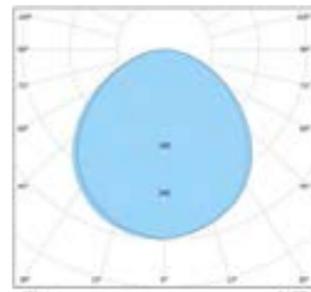
S2



S3



S4



S5

Technical specs

	R800	R1000	R1200	R1500
PERFORMANCE				
Luminaire Output	Up to 96.000 lm	Up to 120.000 lm	Up to 144.000 lm	Up to 180.000 lm
Power Absorption	800 W	1000 W	1200 W	1500 W
Lumen Maintenance [L80 B10]	77.000 h	119.000 h	77.000 h	77.000 h
Lumen Maintenance [L70 B50]	122.000 h	190.000 h	122.000 h	122.000 h
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	Weather proof, proprietary PC weather-proof lenses matrix	Weather proof, Anti-yellowing PMMA refraction matrix	Weather proof, proprietary PC weather-proof lenses matrix
No of LEDs	144	256	216	384
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	21 Kg	26 kg	24 Kg
Dimensions (L-W-H)	389 - 416 - 236 mm	434 - 420 - 226 mm	389 - 631 - 245 mm	562 - 482 - 326 mm
Protection Level	IP66	IP66	IP66	IP66
Impact Resistance	IK09	IK09	IK09	IK09
Windage EPA	0.208 m ²	0.209 m ²	0.315 m ²	0.306 m ²
DRIVER UNIT				
Dimensions (L-W-H)	398 - 230 - 152 mm	310 - 141 - 48.5 mm	398 - 230 - 152 mm	250 - 144 - 48.5 mm
Weight	9 kg	3.8 kg	9 kg	7.6 kg
Protection Level	IP67	IP67	IP67	IP67
ELECTRONICS				
Voltage input	200-480 VAC 50-60Hz			
Active Power F.C.	0.97	0.96	0.97	0.96
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)
	10	FV	B (4000k)	80		DA (DALI)	Fx (Visor for F Optics)
	12	S1	C (3000K)	90		DX (DMX)	00 (No Visor)
	15	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.

Applications

- Small and Medium-Sized Sport Facilities
- Public Football Fields
- Public Rugby Fields
- MUGA Pitches
- Hockey Fields
- Tennis Courts
- Stadiums



Features and benefits of the Modus S Series:

- Designed with speciality 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 two module configuration design allows the use of multiple optics in order to optimise 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.

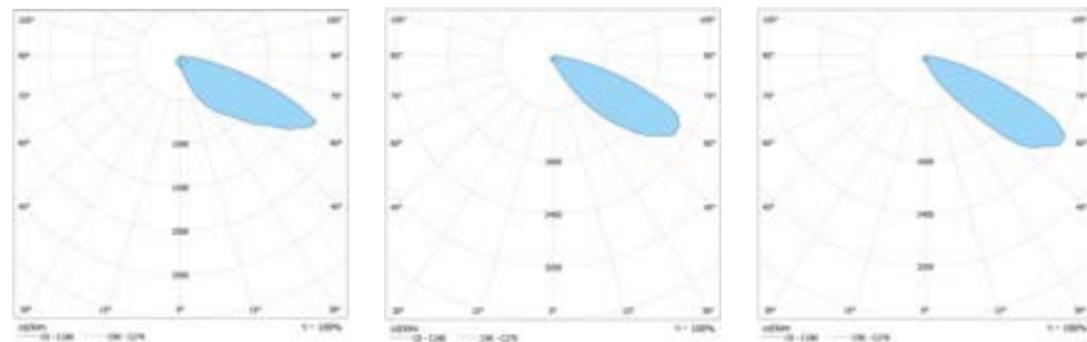
The Modus S Series

In detail

Products



Photometrics



MS

NS

WS

Technical specs

	S900	S1100
PERFORMANCE		
Luminaire Output	Up to 114.000 lm	Up to 135.500 lm
Power Absorption	999 W	1180 W
Lumen Maintenance [L80 B10]	119.000 h	119.000 h
Lumen Maintenance [L70 B50]	190.000 h	190.000 h
OPTOELECTRONICS		
CRI	70 - 80 - 90	
Colour Temperature	3000K Warm White / 4000K Neutral White / 5000K Pure White / 5700K Cool White	
Secondary Optics	Weather proof, proprietary PC weather-proof lenses matrix	
No of LEDs	256	
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	20 kg	
Dimensions (L-W-H)	593 - 437 - 478 mm	
Protection Level	IP66	
Impact Resistance	IK09	
Windage EPA	0.203 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	DRIVER	BRACKET
MS	11 (1100W)	NS	A (5000k)		EU (200-480 VAC)	10 (0-10v)	C (Driver for Cabinet/Mast Shaft mounting)	A (Angled Bracket)
	09 (900W)	MS	B (4000k)	70		DA (DALI)	O (Driver for Outdoor installation)	
		WS	C (3000k)	80		DX (DMX)		
			D (5700k)	90				

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

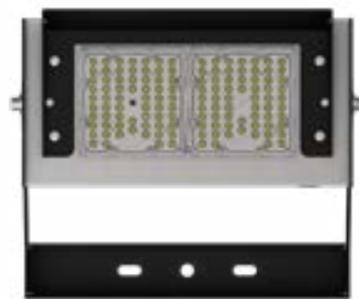
The Modus 450

Overview

The Modus 450 is designed for large area lighting and sports. The fully reversible mounting bracket makes the Modus 450 perfect for both new build projects and for retrofitting to any existing infrastructure. The 450's stainless steel chassis and extruded heat sinks are fully recyclable. The optic enclosure is protected with a proprietary PC weather-proof lenses matrix.

Applications

- Small and Medium-Sized Sport Facilities
- Public Football Fields
- Public Rugby Fields
- MUGA Pitches
- Hockey Fields
- Tennis Courts



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

Features and benefits of the Modus 450:

- Manufactured with a stainless steel construction that improves structural integrity and life of product a critical need when used in challenging environments.
- High lumen package delivering up to 55,000 lumens.
- Integrates with wired or wireless controls including DMX, DALI and 0-10v solutions.
- Designed to have either asymmetric or symmetric distribution allowing for a flexible solution that can be used in a wide range of applications.
- An in-house designed extruded heat sink allows for highly efficient heat dissipation due to its large surface area, when compared with a die-cast product. This keeps lumen degradation to a minimum, extending life and performance.
- Designed as standard with integrated surge protection up to 10kV which protects the luminaire against power surges, meaning more reliability and longer performance.
- Certified IP66 for highest level of ingress protection.



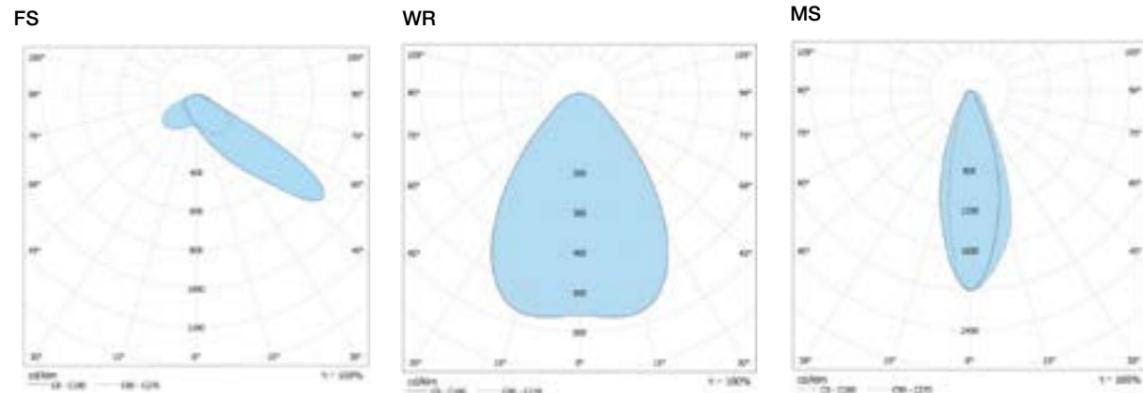
The Modus 450

In detail

Products



Photometrics



Technical specs

Modus 450	
PERFORMANCE	
Luminaire Output	Up to 60.000 lm
Power Absorption	Up to 455 W
Lumen Maintenance [L80 B10]	119.000 h
Lumen Maintenance [L70 B50]	190.000 h
OPTOELECTRONICS	
CRI	70 - 80 - 90
Colour Temperature	3000K Warm White / 4000K Neutral White / 5000K Pure White / 5700K Cool White
Secondary Optics	Weather proof, propriety PC weather-proof lenses matrix
No of LEDs	128
LUMINAIRE BODY	
Chassis and Bracket	Stainless Steel
Metal Finish	Powder Coating
Heatsinks	Anodized Extruded Aluminium (Copper Content <0.1%)
Bracket	Angled reversible bracket, single M20 or 2 x M16 fixing points
Weight	15 kg
Dimensions (L-W-H)	434-202-219mm
Protection Level	IP66
Impact Resistance	IK09
Windage EPA	0.130 m ²
DRIVER UNIT	
Dimensions (L-W-H)	235 - 125 - 43.5 mm
Weight	2.65 kg
Protection Level	IP67
ELECTRONICS	
Voltage input	200-480 VAC 50-60Hz
Active Power F.C.	0.96
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 / +55°C
Humidity Range	0% - 94%

Ordering codes

FAMILY	POWER	OPTIC	CCT	CRI	VOLTAGE INPUT	CONTROL SYSTEM	BODY MATERIAL	VISOR
M (Modus)	04 (450)	FS	A (5000k)	70	EU (180-480 VAC)	10 (0-10v)	T (AISI 3CR12 Stainless Steel)	Fx (Visor for F Optics)
		MS	B (4000k)	80		DA (DALI)	M (AISI 316 Stainless Steel)	00 (No Visor)
		WR	C (3000K)	90				
			D (5700k)					

The product family can be tailored to the specifications outlined above. Example ordering code: M04FSA70EUDATC00Fx

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 package 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 its large surface area compared to a die 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 two-step surge protection up to 15kA / 20kV which protects the luminaire against power surges meaning more reliability and longer performance.
- Certified IP67 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

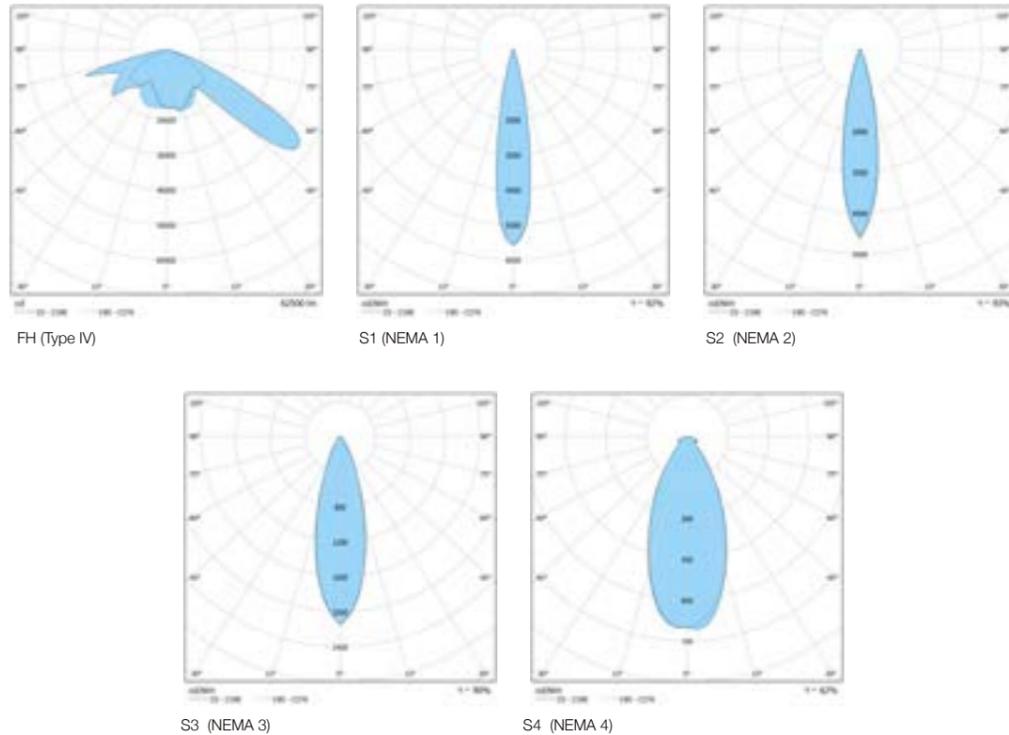
Products



Atlas R800

Atlas R1200

Photometrics



FH (Type IV)

S1 (NEMA 1)

S2 (NEMA 2)

S3 (NEMA 3)

S4 (NEMA 4)

Technical specs

	R800	R1200
PERFORMANCE		
Luminaire Output	Up to 96.000 lm	Up to 144.000 lm
Power Absorption	800 W	1200 W
Lumen Maintenance [L80 B10]	77.000 h	77.000 h
Lumen Maintenance [L70 B50]	122.000 h	122.000 h
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	
Protective Screen	4mm Tempered Glass	
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	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	
Impact Resistance	IK09	
Windage EPA	1.93 ft ²	2.91 ft ²
DRIVER UNIT		
Dimensions (L-W-H)	15 - 9 - 6 in	
Weight	19 lbs	
Protection Level	IP67 - UL1598 Suitable for Wet Locations	
ELECTRONICS		
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	
OPERATING CONDITIONS		
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)
		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)						
	12	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

Find out more: midstreamlighting.com or call +44 (0) 207 584 8310

CASE STUDY

AFC Wimbledon

Founded towards the beginning of the century, AFC Wimbledon has played in League One since 2016. Following a long period of ground-sharing with other teams, the club moved to a permanent home at the newly-built Plough Lane stadium in November of 2020.



High performance lighting for a stunning new ground

As with any new stadium – let alone the first that a club can call its own – lighting forms a crucial part of the supporter experience. To ensure that Plough Lane met expectations, AFC Wimbledon turned to Midstream Lighting. Working together with KSS Architects, Buckingham Group Contracting, and Front Five Building Services, we designed, manufactured, and installed LED lighting around the ground – including the erection of two 25m masts.

Using industry-leading technology for the best lighting experience

52 of Midstream Lighting's Modus R Series floodlights were used in the project. The Modus R is a low glare, broadcast-ready, flicker-free LED light designed specifically for the unique demands of sporting environments. The solution was designed to be fully future-proof, ensuring that AFC Wimbledon can easily adapt and expand to accommodate additional needs on the back of future successes.

In the customer's own words:

"The Plough Lane name holds a special place in the hearts of AFC Wimbledon supporters everywhere. Because of that, we wanted everything about the new stadium to be perfect from day one. Midstream Lighting played a huge role in making sure that we could deliver on that ambition. The lighting setup is phenomenal, and one that does justice to this fantastic ground."

STADIUM / PLOUGH LANE,
WIMBLEDON – LONDON, ENGLAND

SPORT / ASSOCIATION FOOTBALL

Products and services provided:

- Design, manufacture, and installation of stadium-wide LED lighting solution.
- Installation of two 25 metre masts.
- Supply of 52 Modus R Series lights.

Key achievements:

- Scalable and future-proof lighting solution.
- Lighting uniformity of >0.7.
- Project completed on time and on budget during the Covid-19 pandemic.

CASE STUDY

Mansfield Harriers & Mansfield Council

Mansfield Harriers is a thriving running and athletics club based in Nottinghamshire. Training without a fixed venue since 2012, a regenerative funding campaign presented the Harriers with the opportunity to return to Berry Hill – their original home.



Providing athletes with a safe venue in which to train

With Mansfield Harriers set to return to Berry Hill, lighting at the track was in clear need of attention. Unused since 2012, and vandalised in the meantime, the original setup was no longer operational. Even if it had been, that 25-year-old system would have been expensive to run and highly inefficient. The club, in tandem with Mansfield Council, looked to Midstream Lighting for support.

Cost and energy efficiency combined

To meet the club's needs, we designed a new LED lighting solution utilising the Modus S Series. Light and adaptable but with a high lumen package, the Modus S allowed us to utilise existing masts at the track, while also reducing the overall number of lights. The new lighting setup is energy efficient, cost-effective, and has been designed to provide deliberate light spill to a selection of surrounding areas – increasing safety for the local community.

In the customer's own words:

"[The lighting has] lifted the whole area. This is not just a track. This is living history. And now it's more alive than ever."

VENUE / BERRY HILL ATHLETICS
TRACK – MANSFIELD, ENGLAND

SPORT / ATHLETICS

Products and services provided:

- Design, delivery, and installation of a new lighting system using existing infrastructure.
- Clear guidance on cost and energy savings.
- Supply of 29 Modus S Series lights.

Key achievements:

- Intelligent design allowed for fewer lights, and existing masts to be reused.
- Lighting-related energy consumption cut by more than 50%.
- Major reduction in maintenance costs.
- 5-6 year return on investment.

CASE STUDY

St. Hugh's School

Sport is a key part of the curriculum at St. Hugh's School in Oxfordshire, with a timetable that allows for physical education between five and six times per week. Key to this is the school's Multi-Use Games Area (MUGA), a valuable – but previously unlit – facility.



A complete, compliant lighting solution

Accommodating football, hockey, lacrosse, netball, and tennis, the MUGA at St. Hugh's sees frequent activity. Without floodlights in place, however, that activity was confined to daylight hours only. Wanting to encourage pupils to engage in more sporting activity, the school asked Midstream Lighting for help – not only in the design and installation of a suitable solution, but in achieving planning permission for the MUGA in the process.

Cutting down on wasted spend

Having written, submitted, and achieved planning permission for St. Hugh's, we were able to move ahead with the installation of 12 Modus 300 lights. Key to the solution design was the lighting arrangement, with the Modus units fitted to eight pillars built around the MUGA. This design provides the school with complete control, allowing it to isolate pitches and courts – cutting costs when parts of the MUGA are not being used.

In the customer's own words:

“The team from Midstream Lighting delivered our floodlighting project on time, on budget, and with full planning permission granted for good measure. Exceptional service from the whole company, extremely knowledgeable in their field, and a keen eye for detail. They worked with us to get the best solution for the school, not just the one that was going to reap the biggest profit for the company.”

**VENUE / ST. HUGH'S SCHOOL
MULTI-USE GAMES AREA –
OXFORDSHIRE, ENGLAND**

SPORT / ASSOCIATION FOOTBALL

Products and services provided:

- Design and install of a floodlighting solution for evening activities.
- Supply of 12 Modus 300 lights.

Key achievements:

- Submitted and obtained full planning permission on the customer's behalf.
- Smart solution designed to save money by isolating in-use areas.
- Rapid install between the end of December and beginning of January, in time for the new school term.

CASE STUDY

Thongsbridge Tennis & Fitness Club

While tennis clubs and other sports venues play a key role in their local communities, they also need to generate revenues. For Thongsbridge Tennis Club near Huddersfield, maximising its income meant providing guests with the ability to play on any of its courts – day or night.



An all-hours solution for a fast-growing club

With four acrylic courts, seven all-weather outdoor courts, and two tarmac mini courts, Thongsbridge Tennis & Fitness Club can accommodate a huge number of players across a variety of surfaces. Maximising the use of those courts, however, meant addressing the inherent flaws in an ageing, inefficient, and increasingly wasteful lighting system.

A simple, modern solution

Cost is a crucial consideration in any lighting solution, and the reuse of existing infrastructure can make a huge difference to a project budget. Thanks to the versatile design of the Modus R1200, and with the support of one of Midstream Lighting's partners, 20 new lights were retrofitted to existing masts at the club. The result? An all-hours lighting solution that's brighter, cheaper, and greener to run.

In the customer's own words:

“The new lighting system has been a huge positive for the club, allowing our members to play later into the night without worrying about visibility. The fact that it's cleaner and less expensive to run is obviously a major advantage too.”

**VENUE / THONGSBRIDGE TENNIS &
FITNESS CLUB – HOLMFIRTH, ENGLAND**

SPORT / TENNIS

Products and services provided:

- Design and install of a cost-effective and compliant floodlighting solution.
- Supply of 20 Modus R1200 lights.

Key achievements:

- 25% increase in light levels.
- Power consumption reduced from 2,000 W to 1,200 W per appliance.
- Light uniformity established at >0.7 (from previously unknown value).
- Fully compliant with all Lawn Tennis Association requirements.

Recently completed projects

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 we have worked on recently include:

Football

- Wimbledon AFC
- Barnet FC
- Watford FC
- Port Vale FC
- Harrogate town FC
- Oxford City FC
- Winscombe FC
- Dulwich Hamlet FC
- Tow Law Town FC
- SK Artima Praha
- Dobwalls FC
- Bristol Rovers FC
- Pitreavie FC
- FC Horovice
- Hampton Juniors FC
- Hanwood Football Centre
- Fulham FC
- Bonaire Football
- Ponzano FC
- Ramsgate FC

Tennis

- Thongsbridge Tennis Club
- Borough road Tennis Court
- South Downs Tennis Club
- Brentwood School Tennis Courts
- Seaton Tennis Club

- Knaresborough Tennis Club
- Bubwith Tennis Club
- Excel Tennis Centre
- Naples Tennis Club
- Imber Court Tennis Club
- Cockle Bay Tennis Club

Hockey

- Hymers College
- Leeds Adel Hockey Club
- Purley Walcountians Hockey Club
- Sevenoaks Hockey Club
- Harrogate Hockey Club
- Ipswich Hockey Club
- Wilmslow Hockey Club
- Gravesham Hockey Club

Athletics

- Watford Stadium, Watford Harriers
- Berry Hill, Mansfield Harriers
- Hampstead Heath Athletics Track
- Harrow Leisure Centre
- Doncaster Athletics Club
- Basildon Sporting Village
- Tara Track

Rugby

- Cooke RFC
- Longford RFC
- Goole Rugby Club
- Oxford RFC
- Newport Salop RFC

Other

- Truro school
- ST. Hugh's School
- Stadium Kralendijk
- Rosegreen community development
- Bangor University
- Mill Hill School
- Brook Activity Centre
- Willinga Show Jumping Arena
- Tolworth Girls School
- Trafford Golf Centre
- Rosegreen GAA
- Goole Rugby Club
- Balmoral Bowling Club



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

Proud partners



For more information:

European HQ

Midstream Ltd. Wessex House, 1 Chesham Street,
London SW1X 8ND, United Kingdom

Telephone +44 207 584 8310
Email info@midstreamlighting.com

US HQ

Midstream Lighting Ltd.
66 West Flagler Street,
Miami, FL 33130, USA

Telephone (888) 549-6775
Email info@midstreamlighting.com

midstreamlighting.com



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