

OMNIBLAST GEN2



Unrivalled combination of performance and flexibility



OMNIBLAST GEN2 is the ideal tool for sports venues and applications in other very large areas that require a lighting solution with the highest levels of efficiency and flexibility to adapt to the different lighting needs.

OMNIBLAST GEN2 is FIFA Quality Pro approved, meeting the most rigorous standards for quality, performance and installation. It ensures compliance to the strict lighting requirements for professional football venues.

The modular concept of optical units means that one, two or three modules can be mounted on the same bracket to offer the utmost versatility, providing light distribution and lumen packages that are perfectly adapted to the specifications of the area to be lit.

To enhance the on-site experience and television images, OMNIBLAST GEN2 guarantees perfect glare control, a high CRI and TLCI as well as flicker-free lighting. OMNIBLAST GEN2 is available with warm, neutral or cool white LEDs.



Concept

OMNIBLAST GEN2 has been designed to provide an unrivalled combination of performance and flexibility for lighting sports venues and other areas where high lumen packages are needed. This FIFA Quality Pro approved floodlight delivers independently validated lighting performance that aligns with the highest professional football standards.

To enhance the on-site experience and television images, OMNIBLAST GEN2 guarantees perfect glare control, a high colour rendering index (CRI) and television lighting consistency index (TLCI >85+) as well as flicker-free lighting for perfect high-definition broadcast and super slow-motion replays.

OMNIBLAST GEN2 incorporates a patented cooling technology that maximises its life span and lumen output. The modular concept of optical units which enables one, two or three modules to be grouped on the same bracket, and the powerful LensoFlex®, BlastFlex™ and ReFlexo™ LED engines means that OMNIBLAST GEN2 provides a wide range of lighting distributions and lumen packages to meet the specifications of the area to be lit.

It offers perfect glare control with specific optical units and external accessories such as a hood and louvres. The gear boxes can be installed remotely on a various range of brackets. OMNIBLAST GEN2 is available with warm, neutral or cool white LEDs. Cool white LEDs provide a high CRI and are thus particularly suitable for HD 4K UHD images.

The gearbox can be installed remotely on a wide range of brackets.

It can optionally be connected to remote or local control systems, allowing easy management of the lighting installation, with advanced lighting control features, including on-demand dimming, dynamic scenarios for sports events and special occasions, and instant lighting level adjustments to suit any environment.



OMNIBLAST GEN2 takes advantage of patented cooling technology for sustainable performance.



Each module can be tilted individually up to 40° (+20°/-20°).

TYPES OF APPLICATION

- ACCENT & ARCHITECTURAL
- LARGE AREAS
- SPORT FACILITIES

KEY ADVANTAGES

- Cost-effective and efficient to maximise energy and maintenance savings
- Flexibility: modular approach for high-power applications
- High Colour Rendering Index (CRI) and Television Colour Consistency (TLCI)
- Compliant with UHD/HD/4K broadcasting and super slow-motion replays (flicker-free)
- Optimised glare control
- Sports optics based on BlastFlex™ technology offering a wide range of beams: very narrow to asymmetrical beams
- Inclination angle adjustable on-site for each module and/or the complete bracket
- LensoFlex®4 versatile solutions for high-end photometries maximising comfort and safety
- Dynamic scenarios via DMX-RDM protocol
- FIFA Quality Pro approved



The lightweight yet robust bracket for 2 or 3 modules incorporates various settings.



OMNIBLAST GEN2 offers a wide range of accessories (brackets, louvres, hoods...).



LensoFlex®4

LensoFlex®4 maximises the heritage of the LensoFlex® concept with a very compact yet powerful photometric engine based upon the addition principle of photometric distribution. The number of LEDs in combination with the driving current determines the intensity level of the light distribution. With optimised light distributions and very high efficiency, this fourth generation enables the products to be downsized to meet application requirements with an optimised solution in terms of investment.

LensoFlex®4 optics can feature backlight control to prevent intrusive lighting, or a glare limiter for high visual comfort.



ReFlexo™

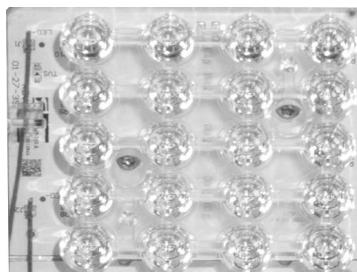
Using metal reflectors with a superior reflective co-efficient, the ReFlexo™ photometric engine delivers high performance for specific applications such as counter beam lighting in tunnels or very extensive light distributions for sports or apron lighting.

Another key advantage of the ReFlexo™ is its' ability to direct all the light to the front of the luminaire, ensuring that no back light is emitted. This photometric engine guarantees glare free lighting for excellent visual comfort and the creation of ambiance.



BlastFlex™4

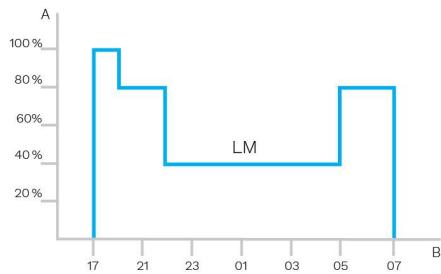
Using collimators made of high-transmission PMMA, the BlastFlex™4 photometric engine offers the highest efficiency for directional beams dedicated to specific applications in architectural and sports lighting. The ability to control the light with the highest accuracy reduces light spill in the surroundings, improves uniformity on the area to be lit and contributes to optimal use of the energy consumed.





Dimming through 0-10V or DMX-RDM

Intelligent luminaire 0-10V drivers enable to operate dimming profiles. DMX-RDM is a protocol that allows bi-directional communication between a lighting fixture and a controller over a standard DMX line. This protocol allows configuration, status monitoring, and control of the lighting fixture. The standard has been developed by the Entertainment Services and Technology Association (ESTA) and is the current standard on the market.



A. Performance | B. Time

GENERAL INFORMATION		ELECTRICAL INFORMATION	
CE mark	Yes	Electrical class	Class 1 US, Class I EU
ENEC certified	Yes	Nominal voltage	120-277V – 50-60Hz 220-240V – 50-60Hz 347-480V – 50-60Hz
UL certified	Yes	Surge protection options (kV)	10 20
ROHS compliant	Yes	Electromagnetic compatibility (EMC)	EN 55015:2013/A1:2015, EN 61000-4-2, -3, -4, -5, -6, -8, -11:2014, EN 61000-3-2, -3:2013
FIFA Quality Pro	Yes	Control protocol(s)	1-10V, DALI, DMX-RDM
French law of December 27th 2018 - Compliant with application type(s)	a, b, c, d, e, f, g	Control options	Remote management
TUV ball throwing compliant	Yes	Socket	NEMA 7-pin (optional)
Testing standard	EN 60598-2-3 EN 62262	Associated control system(s)	Nicolaudie Pharos Schréder ITERRA
HOUSING AND FINISH		· Electrical information given for the gear box	
Housing	Aluminium	OPTICAL INFORMATION	
Optic	Aluminium reflector PMMA Silicon	LED colour temperature	2700K (Warm White WW 727) 3000K (Warm White WW 730) 3000K (Warm White WW 830) 4000K (Neutral White NW 740) 4000K (Neutral White NW 940) 5700K (Cool White CW 757) 5700K (Cool White CW 957)
Protector	Tempered glass Polycarbonate	Colour rendering index (CRI)	>70 (Warm White WW 727) >70 (Warm White WW 730) >80 (Warm White WW 830) >70 (Neutral White NW 740) >90 (Neutral White NW 940) >70 (Cool White CW 757) >90 (Cool White CW 957)
Housing finish	Polyester powder coating	OPERATING CONDITIONS	
Standard colour(s)	RAL 7035 light grey	LIFETIME OF THE LEDS @ TQ 25°C	
Tightness level	IP 66	All configurations	100,000h - L95
Impact resistance	IK 08, IK 09, IK 10	· Lifetime may be different according to the size/configurations. Please consult us.	
Vibration test	Compliant with ANSI C 136-31 - 3G and IEC 68-2-6 - 1.5g		
Safety compliance against ball throwing	DIN18 032-3:1997-04 according to EN 13964 Annex D		

OPERATING CONDITIONS

Operating temperature range (Ta)	-30°C up to +55°C / -22° F up to 131° F
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· Depending on the luminaire configuration. For more details, please contact us.

DIMENSIONS AND MOUNTING

AxBxC (mm | inch)

OMNIBLAST GEN2 1 : 595x188x250 | 23.4x7.4x9.8
 OMNIBLAST GEN2 2 : 780x654x520 | 30.7x25.7x20.5
 OMNIBLAST GEN2 3 : 780x654x790 | 30.7x25.7x31.1

Weight (kg | lbs)

OMNIBLAST GEN2 1 : 10.0-12.0 | 22.0-26.4
 OMNIBLAST GEN2 2 : 24.0-28.0 | 52.8-61.6
 OMNIBLAST GEN2 3 : 30.0-35.0 | 66.0-77.0

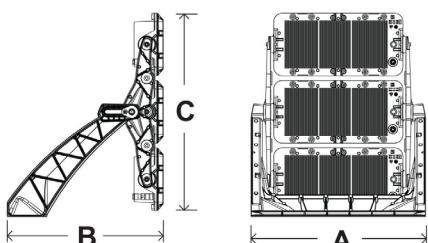
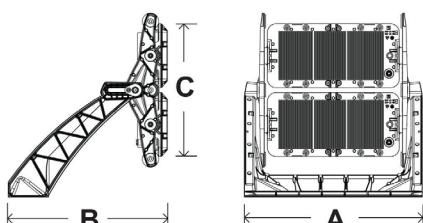
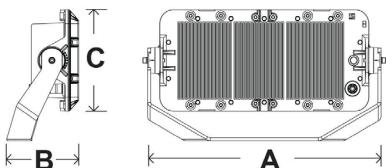
Aerodynamic resistance (CxS)

OMNIBLAST GEN2 1 : 0.11
 OMNIBLAST GEN2 2 : 0.27
 OMNIBLAST GEN2 3 : 0.48

Mounting possibilities

Bracket enabling adjustable inclination
 Suspended mounting

• For more information about mounting possibilities, please consult the installation sheet.





Luminaire output flux (lm)								Power consumption (W)	Luminaire efficacy (lm/W)		
Warm White WW 727		Warm White WW 730		Neutral White NW 740		Cool White CW 757					
Number of LEDs	Min	Max	Min	Max	Min	Max	Min	Max	Up to		
160	42500	67500	47300	75200	51900	82400	46100	73100	367	574	161

Tolerance on LED flux is $\pm 7\%$ and on total luminaire power $\pm 5\%$



Luminaire output flux (lm)								Power consumption (W)	Luminaire efficacy (lm/W)		
Warm White WW 727		Warm White WW 730		Neutral White NW 740		Cool White CW 757					
Number of LEDs	Min	Max	Min	Max	Min	Max	Min	Max	Up to		
160	42500	67500	47300	75200	51900	82400	46100	73100	367	574	161

Tolerance on LED flux is $\pm 7\%$ and on total luminaire power $\pm 5\%$



Luminaire output flux (lm)								Power consumption (W)	Luminaire efficacy (lm/W)				
Warm White WW 830		Neutral White NW 740		Neutral White NW 940		Cool White CW 757							
Number of LEDs	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Up to		
96	45800	57200	51000	63600	43100	53800	49700	61900	40700	50800	619	619	103

Tolerance on LED flux is $\pm 7\%$ and on total luminaire power $\pm 5\%$



Luminaire output flux (lm)								Power consumption (W)	Luminaire efficacy (lm/W)		
Warm White WW 727		Warm White WW 730		Neutral White NW 740		Cool White CW 757					
Number of LEDs	Min	Max	Min	Max	Min	Max	Min	Max	Up to		
320	61100	135100	68000	150400	74600	164900	66200	146400	495	1148	172

Tolerance on LED flux is $\pm 7\%$ and on total luminaire power $\pm 5\%$



Luminaire output flux (lm)								Power consumption (W)	Luminaire efficacy (lm/W)		
Warm White WW 727		Warm White WW 730		Neutral White NW 740		Cool White CW 757					
Number of LEDs	Min	Max	Min	Max	Min	Max	Min	Max	Up to		
320	61100	135100	68000	150400	74600	164900	66200	146400	495	1148	172

Tolerance on LED flux is $\pm 7\%$ and on total luminaire power $\pm 5\%$



Luminaire output flux (lm)								Power consumption (W)	Luminaire efficacy (lm/W)				
Warm White WW 830		Neutral White NW 740		Neutral White NW 940		Cool White CW 757							
Number of LEDs	Min	Max	Min	Max	Min	Max	Min	Max	Up to				
192	91700	114400	102100	127300	86300	107700	99400	123900	81400	101600	1160	1160	110

Tolerance on LED flux is $\pm 7\%$ and on total luminaire power $\pm 5\%$



Luminaire output flux (lm)								Power consumption (W)	Luminaire efficacy (lm/W)		
Warm White WW 727		Warm White WW 730		Neutral White NW 740		Cool White CW 757					
Number of LEDs	Min	Max	Min	Max	Min	Max	Min	Max	Up to		
480	91700	202700	102100	225700	111900	247400	99400	219600	825	1718	169

Tolerance on LED flux is $\pm 7\%$ and on total luminaire power $\pm 5\%$



Luminaire output flux (lm)								Power consumption (W)	Luminaire efficacy (lm/W)		
Warm White WW 727		Warm White WW 730		Neutral White NW 740		Cool White CW 757					
Number of LEDs	Min	Max	Min	Max	Min	Max	Min	Max	Up to		
480	91700	202700	102100	225700	111900	247400	99400	219600	825	1718	169

Tolerance on LED flux is $\pm 7\%$ and on total luminaire power $\pm 5\%$



Luminaire output flux (lm)										Power consumption (W)	Luminaire efficacy (lm/W)		
Warm White WW 830		Neutral White NW 740		Neutral White NW 940		Cool White CW 757		Cool White CW 957					
Number of LEDs	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Up to		
288	137600	171700	153100	191000	129500	161500	149100	185900	122200	152400	1740	1740	110

Tolerance on LED flux is $\pm 7\%$ and on total luminaire power $\pm 5\%$

OMNIBLAST

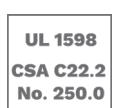


Powerful floodlights for dynamic sports and architectural lighting

OMNIBlast is an indoor and outdoor powerful LED floodlight providing maximised energy and maintenance savings even in the harshest environments.

OMNIBlast offers increased flexibility through its modular approach and possibility to adjust the inclination angle. This LED floodlight withstands high vibrations and ball impact. It is an ideal solution for architectural lighting and the creation of dynamic lighting scenarios for fan engagement and entertainment in sports facilities.

With its tunable white or RGB LEDs, OMNIBlast offers advanced possibilities for creating interactive scenarios with external sensors, to entertain the audience with special lighting effects such as light waves, strobe lighting or flashing light and synchronised music.



Concept

OMNIBlast is based on LED modules made of high-pressure die-cast aluminium. They incorporate a patented cooling technology that maximises their life span and lumen output.

OMNIBlast can be mounted using a steel U bracket (1 module) or an aluminium bracket (2 modules). As an option, it can also be installed using a pendant fixation.

Each module can be tilted individually up to 40° (+20°/-20°). For easy installation, connections to the gear box can be made using quick connectors. A junction box enables the installer to use only one cable between the fixture and the remote gear box that (up to 200m away). The cabling between the fixture and the junction box is factory pre-assembled.

The modular concept of optical units which enables two modules to be grouped on the same bracket, and the powerful BlastFlex™ and LensoFlex®3 LED engines means that OMNIBlast provides a range of lighting distributions and lumen packages to meet the specifications of the area to be lit.

OMNIBlast offers perfect glare control with specific optical units and external accessories such as a hood and louvres. It ensures theatrical effects thanks to its entertainment mode with tunable white and RGB LEDs. OMNIBlast can be controlled by the DMX-RDM protocol that enables each fixture to be switched on and off individually or synchronised in light shows, to create dynamic light shows in sports facilities or architectural lighting.



OMNIBlast takes advantage of patented cooling technology for sustainable performance.



Each module can be tilted individually up to 40° (+20°/-20°).

TYPES OF APPLICATION

- ACCENT & ARCHITECTURAL
- BRIDGES
- CAR PARKS
- SPORT FACILITIES

KEY ADVANTAGES

- Cost-effective and efficient to maximise energy and maintenance savings
- Flexibility: modular approach for high-power applications
- Instant on/off and entertainment mode to create dramatic/theatrical effects
- Optimised glare control
- Sports optics based on BlastFlex™ technology offering a wide range of beams: very narrow to asymmetrical beams
- Inclination angle adjustable on-site for each module and/or the complete bracket



The robust bracket for 2 modules incorporates various settings.



OMNIBlast offers a wide range of accessories (brackets, louvres, hoods...).

LensoFlex[®]3

LensoFlex[®]3 uses lenses made of mouldable and optical-grade silicon offering superior transparency and excellent photothermal stability. This withstands high driving currents and delivers maximised lumen output over time. As silicon offers a higher thermal resistance compared to PMMA, temperature is not as critical for LensoFlex[®]3 engines. This offers two distinct advantages; LensoFlex[®]3 ensures enhanced performance in warm climates and enables a high driving current to be used to increase the lumen output and a higher lm/kg ratio. It also does not suffer from yellowing over time.

BlastFlex[™]

Using silicon collimators, the BlastFlex[™] photometric engine offers the highest efficacy for directional beams dedicated to specific applications in architectural and sports lighting. The ability to control the light with the highest accuracy reduces the light spill in the surroundings and contributes to an optimal use of the energy consumed. Thanks to a superior thermal resistance, the BlastFlex[™] optics can work with very high currents to provide large lumen packages and do not suffer from the yellowing effect over time.

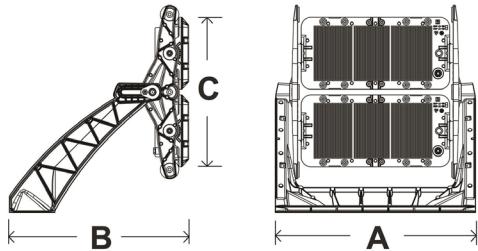
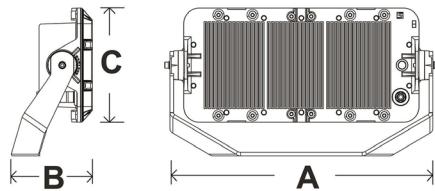


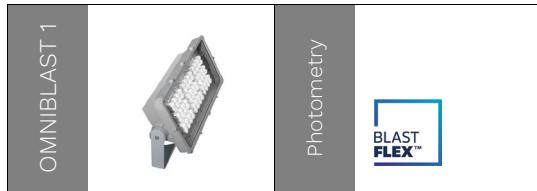
GENERAL INFORMATION		ELECTRICAL INFORMATION	
Driver included	No	Electrical class	Class 1 US, Class I EU
CE mark	Yes	Nominal voltage	120-277V – 50-60Hz 220-240V – 50-60Hz 347-480V – 50-60Hz
ENEC certified	Yes	Power factor (at full load)	0.9
UL certified	Yes	Surge protection options (kV)	10 20
ROHS compliant	Yes	Electromagnetic compatibility (EMC)	EN 55015:2013/A1:2015, EN 61000-4-2, -3, -4, -5, -6, -8, -11:2014, EN 61000-3-2, -3:2013
French law of December 27th 2018 - Compliant with application type(s)	a, b, c, d, e, f, g	Control protocol(s)	1-10V, DMX-RDM
TUV ball throwing compliant	Yes	Control options	Remote management
Testing standard	LM 79-08 (all measurements in ISO17025 accredited laboratory)	Associated control system(s)	Nicolaudie Pharos
HOUSING AND FINISH		· Electrical information given for the gear box	
Housing	Aluminium	OPTICAL INFORMATION	
Optic	Silicon	LED colour temperature	RGB CW
Protector	Tempered glass Polycarbonate	LIFETIME OF THE LEDS @ TQ 25°C	
Housing finish	Polyester powder coating	All configurations	100,000h - L90
Standard colour(s)	RAL 7040 window grey	· Lifetime may be different according to the size/configurations. Please consult us.	
Tightness level	IP 66		
Impact resistance	IK 09		
Vibration test	Compliant with ANSI C 136-31 - 3G and IEC 68-2-6 - 1.5g		
OPERATING CONDITIONS			
Operating temperature range (Ta)	-30°C up to +55°C / -22° F up to 131°F		

· Depending on the luminaire configuration. For more details, please contact us.

DIMENSIONS AND MOUNTING

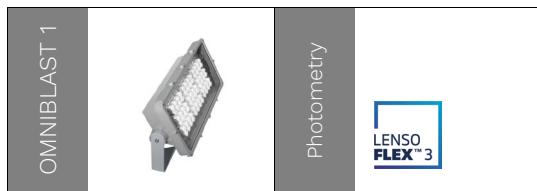
AxBxC (mm inch)	OMNIBLAST 1 : 500x188x250 19.7x7.4x9.8 OMNIBLAST 2 : 700x630x520 27.6x24.8x20.5
Weight (kg lbs)	OMNIBLAST 1 : 12.0 26.4 OMNIBLAST 2 : 28.0 61.6
Aerodynamic resistance (CxS)	OMNIBLAST 1 : 0.12 OMNIBLAST 2 : 0.27
Mounting possibilities	Bracket enabling adjustable inclination Suspended mounting





Luminaire output flux (lm)		Power consumption (W)		Luminaire efficacy (lm/W)
RGB CW		Min	Max	
Number of LEDs	Min	Max	Up to	
153	11900	13000	252	52

Tolerance on LED flux is $\pm 7\%$ and on total luminaire power $\pm 5\%$



Luminaire output flux (lm)		Power consumption (W)		Luminaire efficacy (lm/W)
RGB CW		Min	Max	
Number of LEDs	Min	Max	Up to	
153	11900	13000	252	52

Tolerance on LED flux is $\pm 7\%$ and on total luminaire power $\pm 5\%$



Luminaire output flux (lm)		Power consumption (W)		Luminaire efficacy (lm/W)
RGB CW		Min	Max	
Number of LEDs	Min	Max	Up to	
306	23800	26100	504	52

Tolerance on LED flux is $\pm 7\%$ and on total luminaire power $\pm 5\%$



	Luminaire output flux (lm)		Power consumption (W)		Luminaire efficacy (lm/W)
	RGB CW		Min	Max	Up to
Number of LEDs	Min	Max	Min	Max	
306	23800	26100	504	504	52

Tolerance on LED flux is $\pm 7\%$ and on total luminaire power $\pm 5\%$