

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.

This new LED solution offers an alternative with proven benefits for traditional fixtures. OMNIBLAST GEN2 ensures high horizontal and vertical lighting levels to meet the strict requirements of sports federations and TV broadcasting. A 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.

IP 66

IK 08

IK 09

IK 10



UL 1598
CSA C22.2
No. 250.0



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. It ensures high lighting levels (horizontal and vertical) to meet the requirements of sports federations and broadcasters. 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.

Its driver box is optionally compatible with remote or local control systems, it enables easy management of your lighting installation. Optimise energy consumption with on-demand dimming or create dynamic lighting scenarios for sports events and special occasions, and instantly adjust lighting levels to meet the specific needs of 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
- Compliant with international sports federation regulations
- 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



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



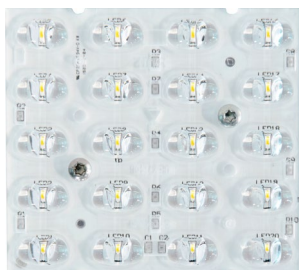
OMNIBLAST GEN2 offers a wide range of accessories (brackets, louvres, hoods...).



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.

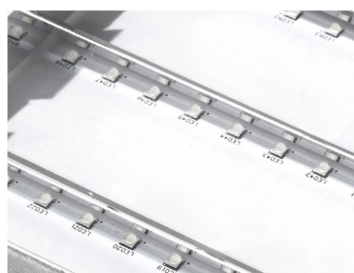
LensoFlex®4 optics can feature backlight control to prevent intrusive lighting, or a glare limiter for high visual comfort.



ReFlexo™

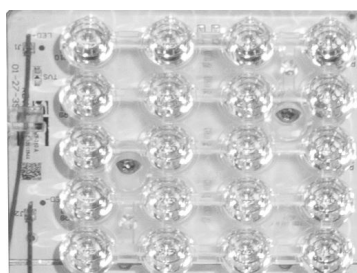
Using metal reflectors with a superior reflective co-efficient, the ReFlexo photometric engine delivers high performance for specific applications such as counter beam lighting in tunnels or very extensive light distributions for sports or apron lighting.

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

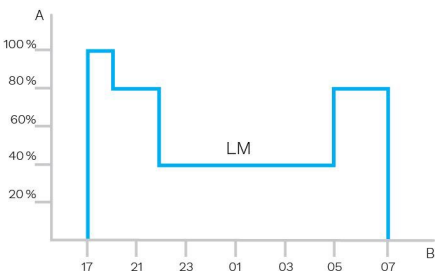
Using collimators made of high-transmission PMMA, the BlastFlex 4 photometric engine offers the highest efficiency for directional beams dedicated to specific applications in architectural and sports lighting. The ability to control the light with the highest accuracy reduces light spill in the surroundings, 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



PIR sensor: motion detection

In places with little nocturnal activity, lighting can be dimmed to a minimum most of the time. By using passive infrared (PIR) sensors, the level of light can be raised as soon as a pedestrian or a slow vehicle is detected in the area.

Each luminaire level can be configured individually with several parameters such as minimum and maximum light output, delay period and ON/OFF duration time. PIR sensors can be used in an autonomous or interoperable network.



GENERAL INFORMATION

CE mark	Yes
ENEC certified	Yes
UL certified	Yes
ROHS compliant	Yes
French law of December 27th 2018 - Compliant with application type(s)	a, b, c, d, e, f, g
TUV ball throwing compliant	Yes
Testing standard	EN 60598-2-3 EN 62262

HOUSING AND FINISH

Housing	Aluminium
Optic	Aluminium reflector PMMA Silicon
Protector	Tempered glass Polycarbonate
Housing finish	Polyester powder coating
Standard colour(s)	RAL 7035 light grey
Tightness level	IP 66
Impact resistance	IK 08, IK 09, IK 10
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 13 964 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.

ELECTRICAL INFORMATION

Electrical class	Class 1 US, Class I EU
Nominal voltage	120-277V – 50-60Hz 220-240V – 50-60Hz 347-480V – 50-60Hz
Surge protection options (kV)	10 20
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
Control protocol(s)	1-10V, DMX-RDM
Control options	Remote management
Socket	NEMA 7-pin
Associated control system(s)	Nicolaudie Pharos

· Electrical information given for the gear box

OPTICAL INFORMATION

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)
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)

LIFETIME OF THE LEDS @ TQ 25°C

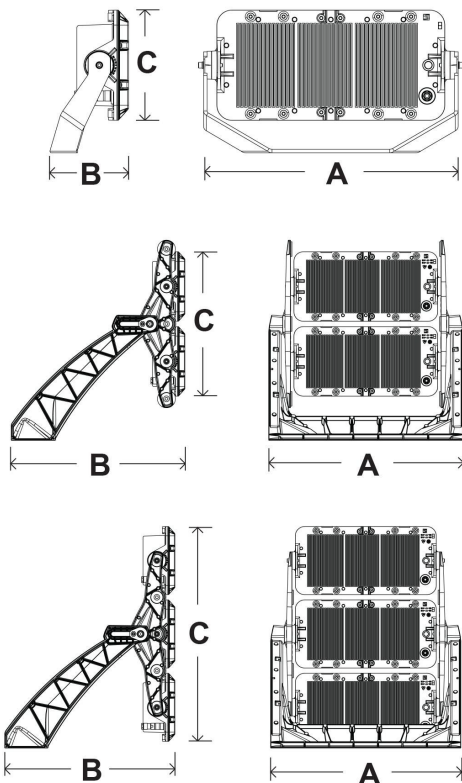
All configurations	100,000h - L95
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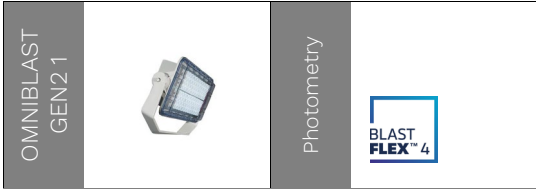
· Lifetime may be different according to the size/configurations. Please consult us.

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.





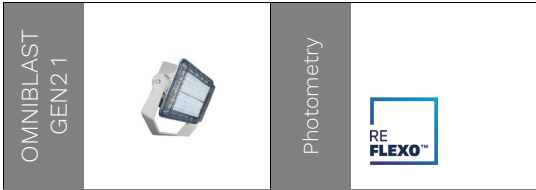
Number of LEDs	Luminaire output flux (lm)								Power consumption (W)		Luminaire efficacy (lm/W)
	Warm White WW 727		Warm White WW 730		Neutral White NW 740		Cool White CW 757				
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Up to
160	42500	67500	47300	75200	51900	82400	46100	73100	367	574	161

Tolerance on LED flux is ± 7% and on total luminaire power ± 5 %



Number of LEDs	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				
	Min	Max	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 ± 7% and on total luminaire power ± 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	Min	Max	Up to
96	45800	57200	51000	63600	43100	53800	49700	61900	40700	50800	619	619	103

Tolerance on LED flux is ± 7% and on total luminaire power ± 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	Min	Max	Up to	
320	61100	135100	68000	150400	74600	164900	66200	146400	495	1148	172	

Tolerance on LED flux is ± 7% and on total luminaire power ± 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	Min	Max	Up to	
320	61100	135100	68000	150400	74600	164900	66200	146400	495	1148	172	

Tolerance on LED flux is ± 7% and on total luminaire power ± 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	Min	Max	Up to	
192	91700	114400	102100	127300	86300	107700	99400	123900	81400	101600	1160	1160	110	

Tolerance on LED flux is ± 7% and on total luminaire power ± 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	Min	Max	Up to	
480	91700	202700	102100	225700	111900	247400	99400	219600	825	1718	169	

Tolerance on LED flux is ± 7% and on total luminaire power ± 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	Min	Max	Up to
480	91700	202700	102100	225700	111900	247400	99400	219600	825	1718	169

Tolerance on LED flux is ± 7% and on total luminaire power ± 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	Min	Max	Up to
288	137600	171700	153100	191000	129500	161500	149100	185900	122200	152400	1740	1740	110

Tolerance on LED flux is ± 7% and on total luminaire power ± 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.

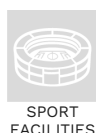
With its tunable white or RGB LEDs, OMNIBlast offers advanced possibilities for creating interactive scenarios with external sensors, to entertain the audience with special lighting effects such as light waves, strobe lighting or flashing light and synchronised music.

IP 66

IK 09



UL 1598
CSA C22.2
No. 250.0



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	
Driver included	No
CE mark	Yes
ENEC certified	Yes
UL certified	Yes
ROHS compliant	Yes
French law of December 27th 2018 - Compliant with application type(s)	a, b, c, d, e, f, g
TUV ball throwing compliant	Yes
Testing standard	LM 79-08 (all measurements in ISO17025 accredited laboratory)

HOUSING AND FINISH	
Housing	Aluminium
Optic	Silicon
Protector	Tempered glass Polycarbonate
Housing finish	Polyester powder coating
Standard colour(s)	RAL 7040 window grey
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.

ELECTRICAL INFORMATION	
Electrical class	Class 1 US, Class I EU
Nominal voltage	120-277V – 50-60Hz 220-240V – 50-60Hz 347-480V – 50-60Hz
Power factor (at full load)	0.9
Surge protection options (kV)	10 20
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
Control protocol(s)	1-10V, DMX-RDM
Control options	Remote management
Associated control system(s)	Nicolaudie Pharos

· Electrical information given for the gear box

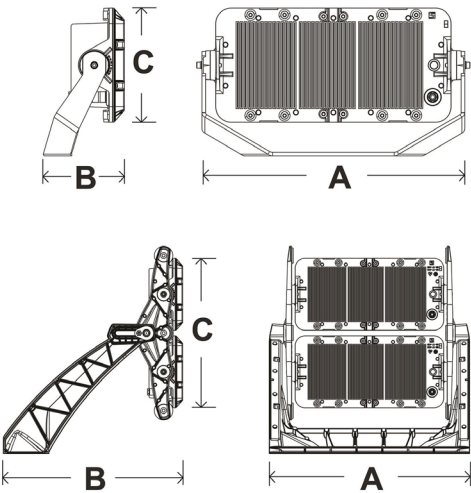
OPTICAL INFORMATION	
LED colour temperature	RGBW

LIFETIME OF THE LEDS @ TQ 25°C	
All configurations	100,000h - L90


· Lifetime may be different according to the size/configurations. Please consult 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



OMNIBLAST 1




Photometry




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

Tolerance on LED flux is ± 7% and on total luminaire power ± 5 %

OMNIBLAST 1



Photometry



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

Tolerance on LED flux is ± 7% and on total luminaire power ± 5 %

OMNIBLAST 2

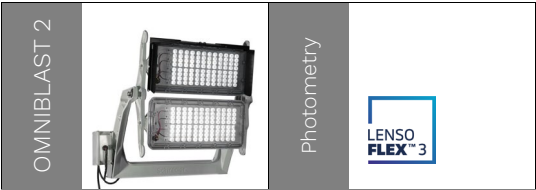


Photometry



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

Tolerance on LED flux is ± 7% and on total luminaire power ± 5 %



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

Tolerance on LED flux is ± 7% and on total luminaire power ± 5 %