Schréder
Experts in lightability™

AREA

OMNIblast

LENSO FLEX™ 3 | BLAST FLEX™

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

ACCENT & ARCHITECTURAL | BRIDGES | CAR PARKS | SPORT FACILITIES

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 BlastFlexTM 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...).

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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.

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GENERAL INFORMATION

Recommended installation height	8m to 50m | 26' to 164'
Driver included	No
CE Mark	Yes
ENEC certified	Yes
ETL/UL certified	Yes
ROHS compliant	Yes
TUV ball throwing compliant	Yes
French law of December 27th 2018 - Compliant with application type(s)	a, b, c, d, e, f, g
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 1US, 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	NCW+Amber RGB CW

LIFETIME OF THE LEDS @ TQ 25°C

All configurations	100,000h - L90

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

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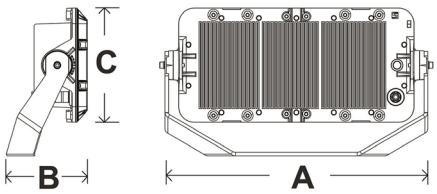
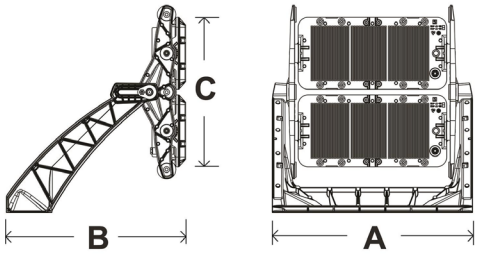
DIMENSIONS AND MOUNTING

AxBxC (mm | inch)	OMNIblast 1 - 500x188x250 | 19.7x7.4x9.8 OMNIblast 2 - 700x630x520 | 27.6x24.8x20.5
Weight (kg | lbs)	OMNIblast 1 - 12 | 26.4 OMNIblast 2 - 28 | 61.6
Aerodynamic resistance (CxS)	OMNIblast 1 - 0.12 OMNIblast 2 - 0.27
Mounting possibilities	Bracket enabling adjustable inclination Suspended mounting





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			Luminaire output flux (lm) NCW+Amber		Luminaire output flux (lm) RGB CW		Power consumption (W)		Luminaire efficacy (lm/W)	
Luminaire	Number of LEDs	Current (mA)	Min	Max	Min	Max	Min	Max	Up to	Photometry
OMNIblast 1	144	500	15400	17000	-	-	244	244	70	LENSO FLEX™3 BLAST FLEX™
	153	500	-	-	11900	13000	252	252	52	LENSO FLEX™3 BLAST FLEX™
OMNIblast 2	288	500	33300	34000	-	-	488	488	70	LENSO FLEX™3 BLAST FLEX™
	306	500	-	-	23800	26100	504	504	52	LENSO FLEX™3 BLAST FLEX™

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

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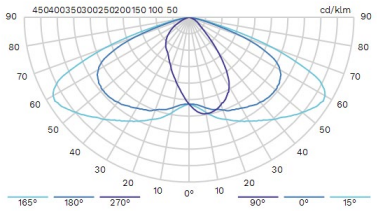
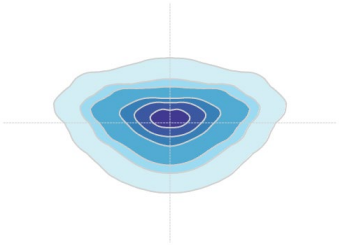
LENSO FLEX™3

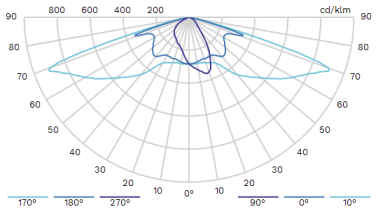
5147 RGB+CW (all ON 100%)

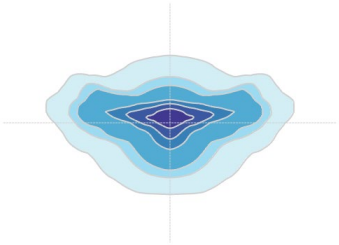




LENSO FLEX™3

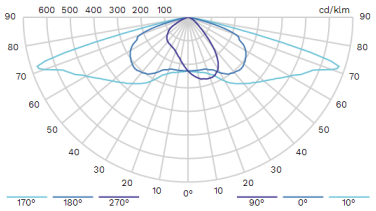
5162 Tunable Archi (all on 100%)

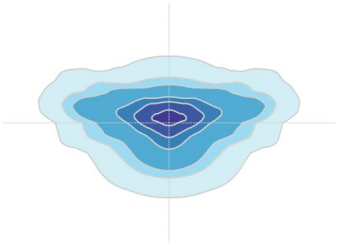




LENSO FLEX™3

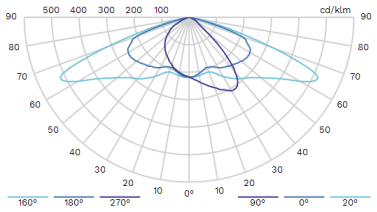
5163 RGB+CW (all ON 100%)

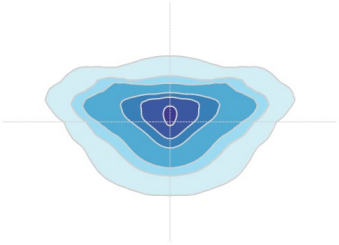




LENSO FLEX™3

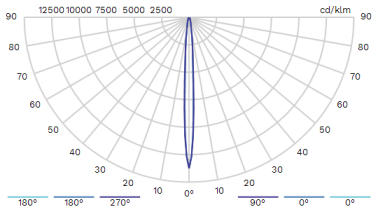
5164 Tunable Archi (all on 100%)

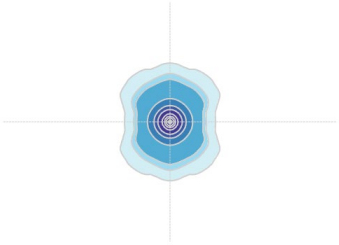




BLAST FLEX™

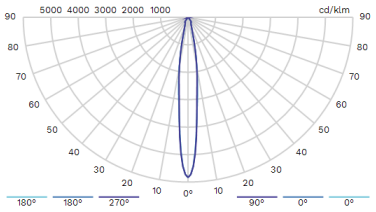
5182 RGB+CW (all ON 100%)

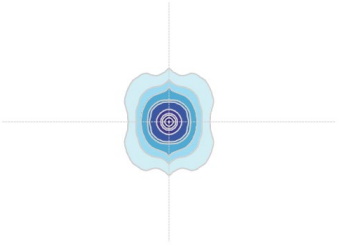




BLAST FLEX™

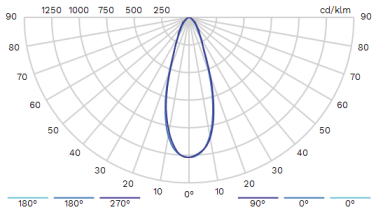
5184 Tunable Archi (all on 100%)

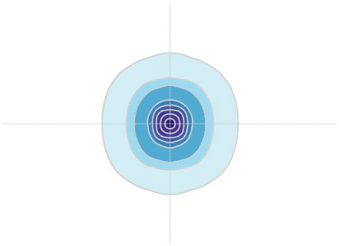




BLAST FLEX™

5185 RGB+CW (all ON 100%)





BLAST FLEX™

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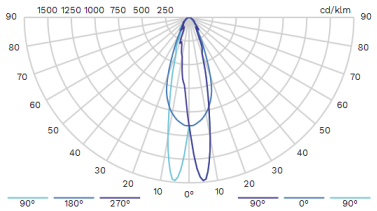

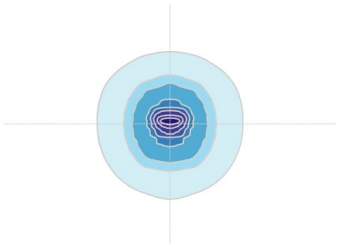

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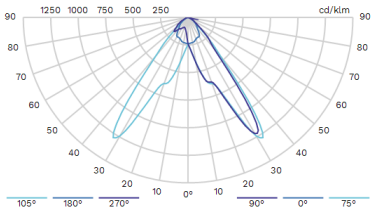

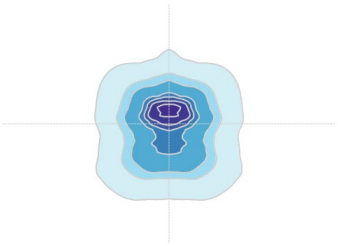

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AREA

OMNIblast GEN2

RE FLEXO™ BLAST FLEX™

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 fitted with 800W, 1000W, 1500W and 2000W lamps. 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 09 | IK 08

ACCENT & ARCHITECTURAL | LARGE AREAS | SPORT FACILITIES

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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 is the ideal replacement for 800W, 1000W, 1500W and 2000W discharge lamps. 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 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 (up to 200m away) or 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.

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

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

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

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

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)
- 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

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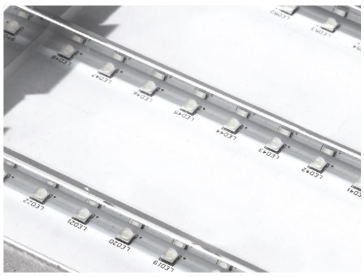
ReFlexo™

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™

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.

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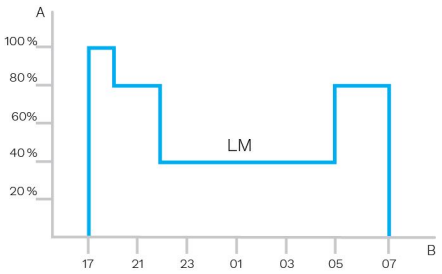
Dimming through 0-10V or DMX-RDM

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 parametres 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.

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GENERAL INFORMATION

Recommended installation height	8m to 50m | 26' to 164'
Driver included	No
CE Mark	Yes
ENEC certified	Yes
ETL/UL certified	Yes
ROHS compliant	Yes
TUV ball throwing compliant	Yes
French law of December 27th 2018 - Compliant with application type(s)	a, b, c, d, e, f, g
Testing standard	LM 79-08 (all measurements in ISO17025 accredited laboratory)

HOUSING AND FINISH

Housing	Aluminium
Optic	Aluminium reflector Silicon
Protector	Tempered glass Polycarbonate
Housing finish	Polyester powder coating
Standard colour(s)	RAL 7040 window grey
Tightness level	IP 66
Impact resistance	IK 08, IK 09
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

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

ELECTRICAL INFORMATION

Electrical class	Class 1US, 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	3000K (Warm White 830) 4000K (Neutral White 740) 4000K (Neutral White 940) 5700K (Cool White 757) 5700K (Cool White 957)
Colour rendering index (CRI)	>80 (Warm White 830) >70 (Neutral White 740) >90 (Neutral White 940) >70 (Cool White 757) >90 (Cool White 957)

LIFETIME OF THE LEDS @ TQ 25°C

All configurations	100,000h - L90

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

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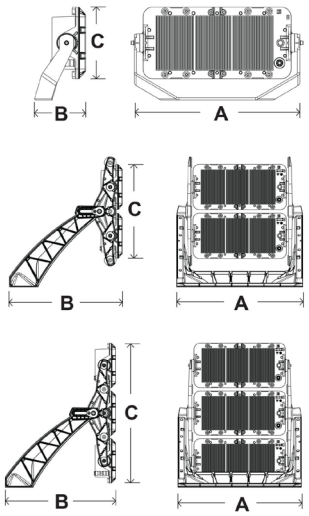
DIMENSIONS AND MOUNTING

AxBxC (mm | inch)	OMNIblast GEN2 1 - 595x188x250 | 23.4x7.4x9.8 OMNIblast GEN2 2 - 700x630x520 | 27.6x24.8x20.5 OMNIblast GEN2 3 - 700x630x790 | 27.6x24.8x31.1
Weight (kg | lbs)	OMNIblast GEN2 1 - 12 | 26.4 OMNIblast GEN2 2 - 28 | 61.6 OMNIblast GEN2 3 - 35 | 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



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OMNIblast GEN2 | PERFORMANCE

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			Luminaire output flux (lm) Warm White 830		Luminaire output flux (lm) Cool White 757		Luminaire output flux (lm) Cool White 957		Luminaire output flux (lm) Neutral White 740		Luminaire output flux (lm) Neutral White 940		Power consumption (W)	Luminaire efficacy (lm/W)	
Luminaire	Number of LEDs	Current (mA)	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Max	Up to	Photometry
OMNIblast GEN2 1	96	2000	19200	56600	21400	63100	17500	51700	22000	64800	17500	51700	618	105	BLAST FLEX™ RE FLEXO™
OMNIblast GEN2 2	192	2000	38400	113200	42900	126300	35100	103500	44000	129700	35100	103500	1236	105	RE FLEXO™ BLAST FLEX™
OMNIblast GEN2 3	288	2000	57600	169800	64300	189500	52700	155300	66100	194600	52700	155300	1854	105	RE FLEXO™ BLAST FLEX™

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

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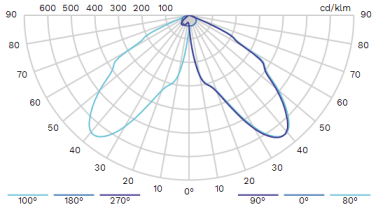
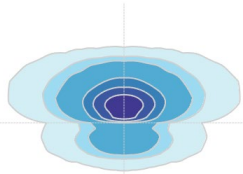
RE FLEXO™

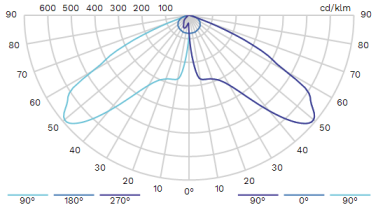
2260

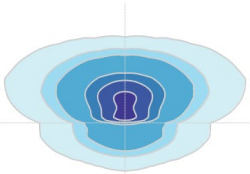




RE FLEXO™

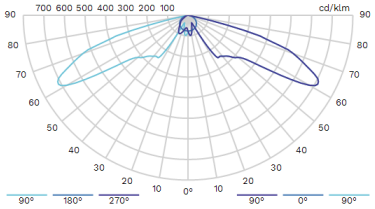
2261

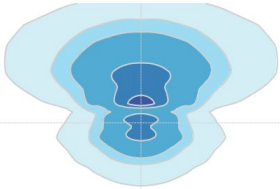




RE FLEXO™

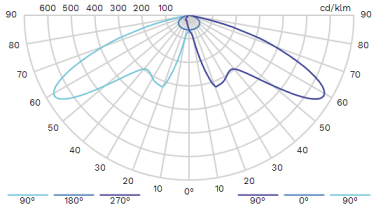
2283

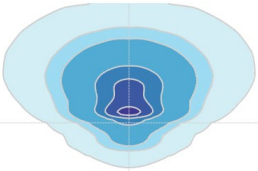




RE FLEXO™

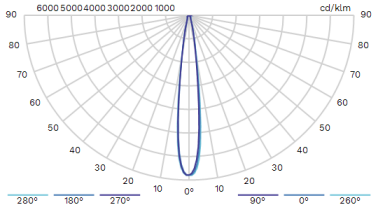
2297

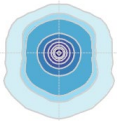




BLAST FLEX™

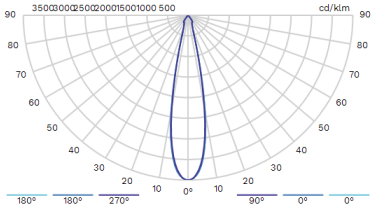
5182 - Hood

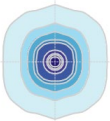




BLAST FLEX™

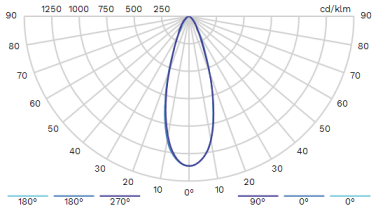
5184





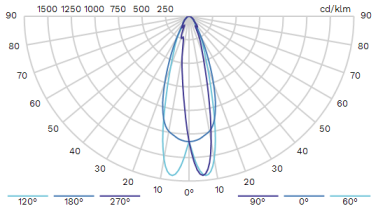
BLAST FLEX™

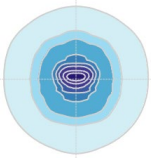
5185 - Hood



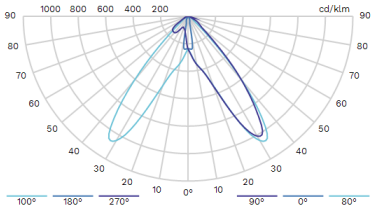
BLAST FLEX™

5186





5188 - Vertical louvers



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