Schréder
Experts in lightability™

AREA

BRITELINE GEN2

IP 66 | IK 10

UL 1598
CSA C22.2
No. 250.0

RoHS

Versatile and efficient lighting solution for outdoor sports facilities

The BRITELINE GEN2 floodlight offers a versatile and efficient solution for lighting outdoor sports facilities and large areas where energy efficiency is a must. With its innovative design comprising adjustable and corrosion-resistant modules, this floodlight offers unparalleled versatility and precise configuration to accommodate any existing setup while ensuring accurate photometry.

Equipped with high-performance LED engines, BRITELINE GEN2 stands out by delivering exceptional performance at affordable costs. Its light distributions and backlighting options not only provide outstanding visibility but also adhere to strict environmental standards, meeting light pollution regulations and dark sky requirements.

Compatible with the Schréder ITERRA control system, BRITELINE GEN2 provides intelligent and intuitive lighting, elevating recreative sports and outdoor floodlighting to unprecedented levels.

LARGE AREAS

SPORT FACILITIES

BRITELINE GEN2 | SUMMARY

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Concept

BRITELINE GEN2 is a powerful floodlight designed to provide high-efficiency lighting in a cost-effective solution for large areas and outdoor sports facilities. Made of LM6 aluminium alloy, BRITELINE GEN2 has a robust design that thrives even in salty and highly corrosive environments. Available in two sizes, it offers an innovative layout consisting of one or two adjustable lighting modules, granting unparalleled flexibility in directing the light. This unique design allows for precise orientation on both the mounting bracket and the modules themselves, enabling seamless adaptation to any existing configuration. Moreover, the bracket design has been enhanced for high and low installations, optimising luminaire distribution within the entire setup to maximise performance while minimising costs.

Bring obtrusive floodlighting to an end with BRITELINE GEN2. This floodlight solution offers a range of asymmetric light distributions and hood options, ensuring compliance with light pollution regulations and dark sky requirements.

BRITELINE GEN2 perfectly blends performance with energy savings. Equipped with the ProFlex photometric engines, it delivers highly efficient and cost-effective lighting, enabling a more energy-conscious outdoor lighting installation.

Its remote gear box allows all the electronic components to be installed remotely, at a distance of up to 200m. This features not only optimises the lighting installation itself, it also reduces the weight and stress on the poles. An integrated driver is available for BRITELINE GEN2 size 1.

More than standard floodlighting, BRITELINE GEN2 is compatible with the Schréder ITERRA control system, enabling intelligent and intuitive local or remote control of your lighting installation.

TYPES OF APPLICATION

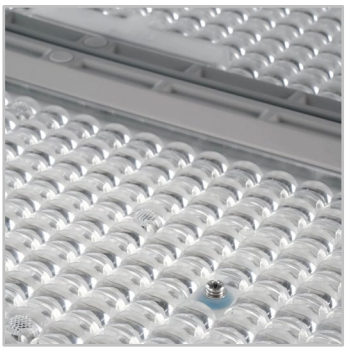
- LARGE AREAS
- SPORT FACILITIES

KEY ADVANTAGES

- Maximised savings in energy and maintenance costs
- ProFlex photometric engines offering high efficiency lighting, comfort and safety
- Inclination angle adjustable on-site for each module and/or the complete bracket
- Intelligent lighting via remote control
- Perfect control of light distributions
- Two sizes to provide the best solution

BRITELINE GEN2 has a unique and robust layout, compatible with highly corrosive environments.

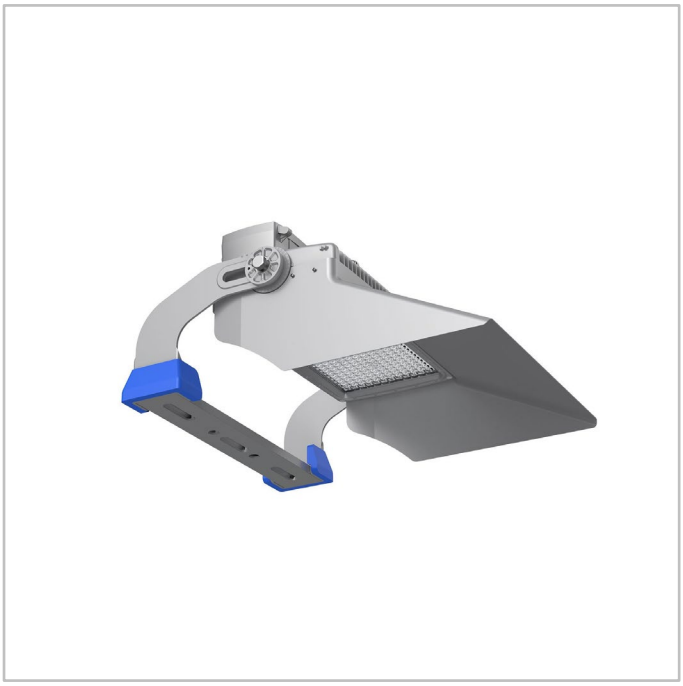
Its bracket layout enables BRITELINE GEN2 to be orientated in different axes to provide accurate photometry.



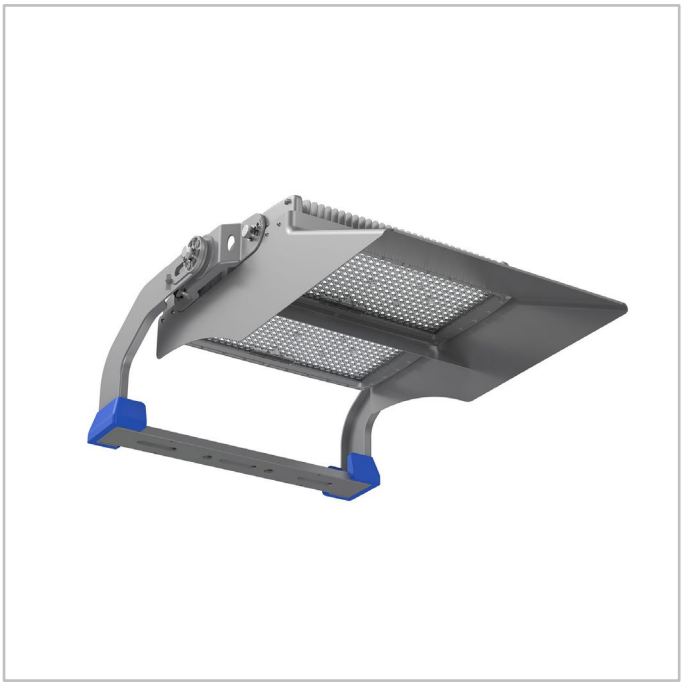
The ProFlex photometric engines enable high efficiency.

The BRITELINE GEN2 driver box allows remote electronic connection and reduces the weight on the poles.

BRITELINE GEN2 | Size 1 equipped with Hood V1 S1 (asymmetrical photometry)



BRITELINE GEN2 | Size 2 equipped with Hood V1 S2 (asymmetrical photometry)



BRITELINE GEN2 | Size 1 equipped with Hood V2 S1 (collimators)

BRITELINE GEN2 | Size 2 equipped with Hood V2 S2 (collimators)

ProFlex™

The ProFlex photometric engine integrates the lenses into a polycarbonate protector. This integration increases the output and reduces the reflection inside the optical unit. The polycarbonate used for the ProFlex photometric engine offers essential characteristics such as high optical clarity for a superior light transmission, better impact resistance compared to glass and a long life span with UV-stabilisation treatment. The ProFlex concept enables a compact design with a thin optical compartment. It provides extensive light distributions so that the spacing between the luminaires can be increased.

BRITELINE GEN2 | CHARACTERISTICS

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GENERAL INFORMATION

Recommended installation height	10m to 40m | 33' to 131'
Circle Light label	Score ≥90 - The product fully meets circular economy requirements
Driver included	Yes
CE mark	Yes
ENEC certified	Yes
UL certified	Yes
ROHS compliant	Yes
RCM mark	Yes
Testing standard	EN 60598-1 EN 60598-2-1 IEC TR 62778 EN 62262 EN 60598-2-24:2013 UL 1598 IEC 62722-2-1 IEC 62493 IEC 62471

HOUSING AND FINISH

Housing	Aluminium
Optic	Polycarbonate
Protector	Polycarbonate (with integrated lenses)
Housing finish	Polyester powder coating
Standard colour(s)	RAL 9006B
Tightness level	IP 66
Impact resistance	IK 10
Vibration test	Compliant with modified IEC 68-2-6 (0.5G)
Access for maintenance	Tool-less access to gear compartment

OPERATING CONDITIONS

Operating temperature range (Ta)	-30°C up to +35°C / -22°F up to 95°F

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

ELECTRICAL INFORMATION

Electrical class	Class I EU
Nominal voltage	120-277V – 50-60Hz 220-240V – 50-60Hz 277-480V - 50/60Hz
Surge protection options (kV)	10
Electromagnetic compatibility (EMC)	EN 55015 / EN 61000-3-2 / EN 61000-3-3 / EN 61547
Control protocol(s)	DALI-2, 1-10V, DMX-RDM
Control options	Remote management
Socket	NEMA 7-pin (optional)
Associated control system(s)	Schréder ITERRA

OPTICAL INFORMATION

LED colour temperature	3000K (Warm White WW 730) 4000K (Neutral White NW 740) 4000K (Neutral White NW 840) 4000K (Neutral White NW 940) 5700K (Cool White CW 757) 5700K (Cool White CW 857) 5700K (Cool White CW 957)
Colour rendering index (CRI)	>70 (Warm White WW 730) >70 (Neutral White NW 740) >80 (Neutral White NW 840) >90 (Neutral White NW 940) >70 (Cool White CW 757) >80 (Cool White CW 857) >90 (Cool White CW 957)
ULOR	0%
ULR	0%

· ULOR may be different according to the configuration. Please consult us.
· ULR may be different according to the configuration. Please consult us.

LIFETIME OF THE LEDS @ TQ 25°C

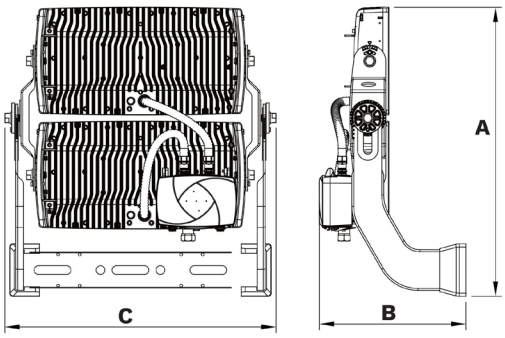
All configurations	120,000h - L96

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

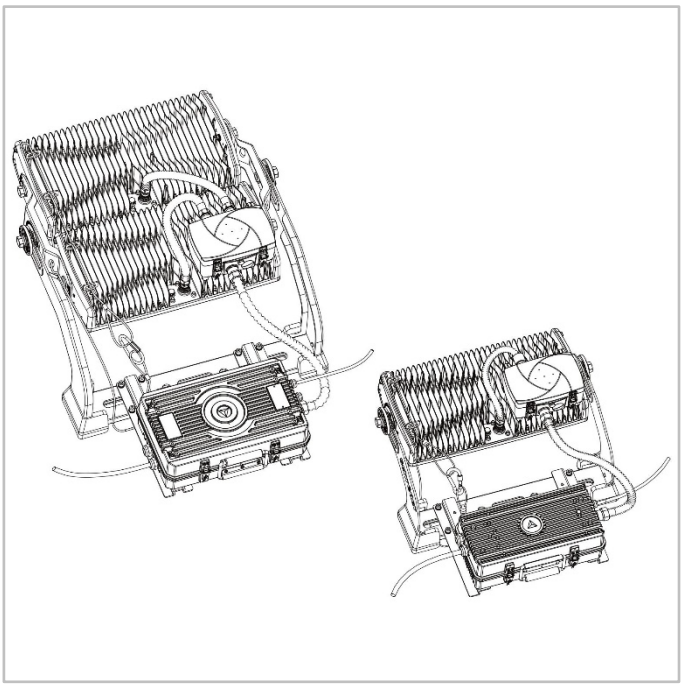
DIMENSIONS AND MOUNTING

AxBxC (mm | inch)	BRITELINE GEN2 1 : 436x332x609 | 17.2x13.1x24.0 BRITELINE GEN2 2 : 723x367x679 | 28.5x14.4x26.7
Weight (kg | lbs)	BRITELINE GEN2 1 : 16.5 | 36.3 BRITELINE GEN2 2 : 30.0 | 66.0
Aerodynamic resistance (CxS)	BRITELINE GEN2 1 : 0.17 BRITELINE GEN2 2 : 0.35
Mounting possibilities	Surface mounting

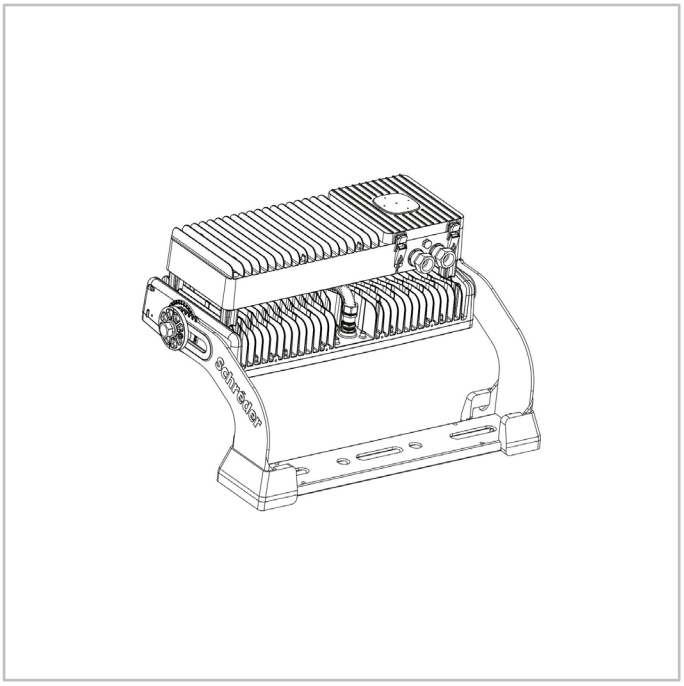
· Dimensions and weights are given for the luminaire itself, without the gear box. For further information, please consult the installation sheet.
· Aerodynamic resistance (CxS) may vary according to the luminaire configuration and installation. For further information, please consult the installation sheet.



BRITELINE GEN2 | Surface mounting with adjustable bracket (external gear box)



BRITELINE GEN2 | Surface mounting with adjustable bracket (integrated gear, only for size 1)



BRITELINE GEN2 1

	Luminaire output flux (lm)														Power consumption (W)		Luminaire efficacy (lm/W)
	Warm White WW 730		Neutral White NW 740		Neutral White NW 840		Neutral White NW 940		Cool White CW 757		Cool White CW 857		Cool White CW 957				
Number of LEDs	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Up to
324	92100	93400	97500	99000	94200	96200	90900	91800	101900	103000	98000	99800	94600	99000	680	694	152

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

BRITELINE GEN2 2

	Luminaire output flux (lm)														Power consumption (W)		Luminaire efficacy (lm/W)
	Warm White WW 730		Neutral White NW 740		Neutral White NW 840		Neutral White NW 940		Cool White CW 757		Cool White CW 857		Cool White CW 957				
Number of LEDs	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Up to
648	183600	187400	194500	198500	185600	191400	178600	182300	201700	207600	193700	198800	186000	189800	1361	1392	153

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