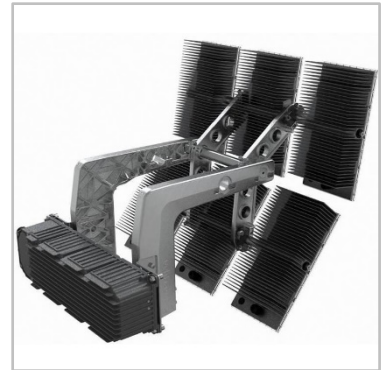
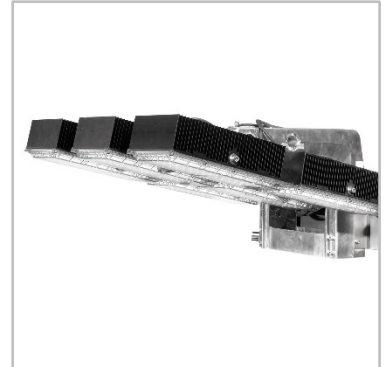


ECOBLAST



Smart modular solution for sports lighting

ECOBLAST is a range of high-performing floodlights designed to provide the right light where, when and how it is needed in indoor and outdoor sports venues as well as other large areas where high lumen packages and razor-sharp lighting distribution are needed. Thanks to its versatile mounting system, ECOBLAST is fully compatible with existing infrastructure for retrofit projects. The modular approach optimises the weight and lowers the aerodynamic resistance to minimise the mechanical stress on the supporting structure.

ECOBLAST has outstanding, cutting-edge technology to offer a perfect uniformity and superior visual comfort for players, spectators and neighbours (low glare and minimised light spill). ECOBLAST is the ideal tool to comply with sports federations and international regulations. With its DALI and DMX options, ECOBLAST is fully compatible with the ITERRA remote control system.

IP 66

IK 09

IK 08



CE



LARGE AREAS



SPORT FACILITIES

Concept

The modular ECOBLAST solution offers beneficial LED alternatives to floodlights equipped with 1000W, 1500W or 2000W discharge lamps for lighting large areas such as sports fields, airport aprons, harbours and railway stations. Composed of robust materials, ECOBLAST is highly resistant to shocks and corrosion.

ECOBLAST combines the energy efficiency of LED technology with the performance of the photometric concepts developed by Schröder. The design of the BlastFlex™4 and LensoFlex®4 photometric engines associated with the flexibility of the photometric distribution ensures safe and pleasant conditions for users while offering superior efficiency. With its wide range of cutting-edge lighting distributions and lumen packages (3 to 6 modules), ECOBLAST can meet the specifications of any area - even in the most complex projects - with minimised glare and light spill. The ability of ECOBLAST to provide high levels of horizontal and vertical illuminance guarantees compliance with sports federations and international regulations.

The ECOBLAST bracket includes a universal mounting plate to ensure full compatibility with existing structures for retrofit projects. Thanks to its low wind resistance, optimised weight and remote drivers, ECOBLAST minimises mechanical stress on the supporting structure.

ECOBLAST enables fine-tuning of the aiming on site. Each row of modules can be tilted up to 80° (-10° to +70°) with graduation in 5° steps for a precise on-site adjustment. As ECOBLAST is designed for wireless remote management (with DALI-2 or DMX) and is compatible with the ITERRA control system, it does not require any additional cabling compared to any previously installed system.



ECOBLAST is a modular solution with up to 6 modules, including tilt settings on the whole ensemble and per row of modules.



The ECOBLAST bracket offers two positions for the structure supporting the modules: front or rear.

TYPES OF APPLICATION

- LARGE AREAS
- SPORT FACILITIES

KEY ADVANTAGES

- Cost-effective and efficient to maximise energy and maintenance savings
- Fully compatible with existing infrastructures (mounting and cabling) in retrofit projects
- Flexibility: modular approach for high-power applications
- Versatile mounting: remote gear box or fixed to the floodlight
- Compliant with international sports federation regulations
- Optimised glare control
- Inclination angle adjustable on-site for each module and/or the complete bracket
- Instant on/off and entertainment mode to create dramatic/theatrical effects



The universal mounting part on the ECOBLAST bracket is designed to comply with existing infrastructures for retrofit projects.



ECOBLAST offers maximum flexibility with a driver box that can be mounted on the bracket or remotely at a distance of up to 200m.

ECOBLAST | 3 modules



ECOBLAST | 4 modules



ECOBLAST | 5 modules



ECOBLAST | 6 modules

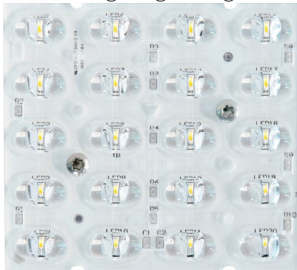




LensoFlex[®]4

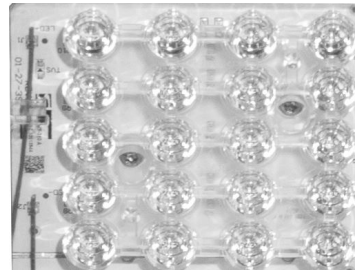
LensoFlex[®]4 maximises the heritage of the LensoFlex[®] concept with a very compact yet powerful photometric engine based upon the addition principle of photometric distribution. The number of LEDs in combination with the driving current determines the intensity level of the light distribution. With 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.



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.



GENERAL INFORMATION

Recommended installation height	8m to 50m 26' to 164'
FutureProof	Easy replacement of the photometric engine and electronic assembly
Circle Light label	Score >90 - The product fully meets circular economy requirements
Driver included	Yes
CE mark	Yes
ENEC certified	Yes
ROHS compliant	Yes
TUV ball throwing compliant	Yes
Flicker	IEEE 1789 Flicker recommended practice compliant
Testing standard	LM 79-08 (all measurements in ISO17025 accredited laboratory) EN 60598-2-3:2003/A1:2011

HOUSING AND FINISH

Housing	Aluminium
Optic	PMMA
Protector	Tempered glass Polycarbonate
Housing finish	Anodised aluminium
Tightness level	IP 66
Impact resistance	IK 08, IK 09
Vibration test	Compliant with ANSI C 136-31 standard, 3G load and modified IEC 68-2-6 (0.5G)
Safety compliance against ball throwing	DIN18 032-3:1997-04 according to EN 13 964 Annex D

· IP 66 / IK 08 gear box in die-cast aluminium with a powder coating (RAL 7016 anthracite grey).

· Bracket in anti-corrosive EN AC-44300 aluminium alloy.

OPERATING CONDITIONS

Operating temperature range (Ta)	-40°C up to +50°C / -40° F up to 122°F
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ELECTRICAL INFORMATION

Electrical class	Class 1US, Class I EU
Nominal voltage	220-240V – 50-60Hz 277V – 50-60Hz 347V – 50-60Hz 400V – 50-60Hz
Power factor (at full load)	0.95+
Surge protection options (kV)	10
Electromagnetic compatibility (EMC)	EN 55015 / EN 61000-3-2 / EN 61000-3-3 EN 61547 / EN 61000-4-2, -3, -4, -5, -6, -8, -11
Control protocol(s)	DALI-2, DMX-RDM
Control options	Remote management
Associated control system(s)	Schröder ITERRA

· Electrical information given for the gear box

OPTICAL INFORMATION

LED colour temperature	3000K (Warm White 730) 4000K (Neutral White 740) 4000K (Neutral White 840) 5700K (Cool White 757) 5700K (Cool White 957)
Colour rendering index (CRI)	>70 (Warm White 730) >70 (Neutral White 740) >80 (Neutral White 840) >70 (Cool White 757) >90 (Cool White 957)

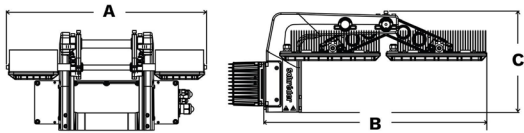
LIFETIME @ TQ 25°C

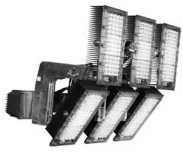
All configurations	50,000h - L96
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DIMENSIONS AND MOUNTING

AxBxC (mm inch)	ECOBLAST 3 - 583x360x696 23.0x14.2x27.4 ECOBLAST 4 - 765x346x696 30.1x13.6x27.4 ECOBLAST 5 - 765x346x696 30.1x13.6x27.4 ECOBLAST 6 - 765x346x696 30.1x13.6x27.4
Weight (kg lbs)	ECOBLAST 3 - 17.1 37.6 ECOBLAST 4 - 25.2 55.4 ECOBLAST 5 - 29 63.8 ECOBLAST 6 - 32.3 71.1
Aerodynamic resistance (CxS)	ECOBLAST 3 - 0.22 ECOBLAST 4 - 0.25 ECOBLAST 5 - 0.28 ECOBLAST 6 - 0.30
Mounting possibilities	Bracket enabling adjustable inclination Surface mounting

Weights are given for the configurations with PC protector. For glass protector, add 9% to these values.





		Luminaire output flux (lm) Warm White 730		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 840		Power consumption (W)		Luminaire efficacy (lm/W)		
Number of LEDs	Current (mA)	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Up to	Photometry	
		180	1250	73100	86100	78000	91900	56900	67100	80100	94400	68500	80700	680	680	139
180	1300	75000	88400	80100	94400	58500	68900	82200	96900	70400	82900	700	700	138		
180	1350	76900	90600	82100	96800	59900	70600	84300	99300	72100	85000	730	730	136		
180	1400	78700	92700	84000	99000	61300	72300	86200	101600	73800	86900	760	760	134		
ECOBLAST 3	180	1450	80400	94700	85800	101100	62600	73800	88100	103800	75400	88800	790	790	131	
	180	1500	82000	96700	87600	103200	63900	75300	89900	105900	76900	90600	810	810	131	
	180	1550	83600	98500	89200	105200	65100	76800	91600	107900	78400	92400	840	840	128	
	180	1600	85000	100200	90800	107000	66300	78100	93200	109800	79800	94000	870	870	126	
	180	1650	86500	101900	92300	108800	67400	79400	94800	111700	81100	95600	890	890	126	
	180	1680	87300	102900	93200	109800	68000	80200	95700	112700	81900	96500	910	910	124	

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



		Luminaire output flux (lm) Warm White 730		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 840		Power consumption (W)		Luminaire efficacy (lm/W)	
Number of LEDs	Current (mA)	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Up to	Photometry
		240	1250	97400	114800	104000	122600	75900	89500	106800	125800	91400	107700	900	900
240	1300	100100	117900	106800	125900	78000	91900	109700	129200	93800	110600	940	940	137	
240	1350	102500	120800	109500	129000	79900	94200	112400	132400	96200	113300	980	980	135	
240	1400	104900	123600	112000	132000	81800	96400	115000	135500	98400	115900	1010	1010	134	
240	1450	107200	126300	114400	134900	83500	98500	117500	138400	100500	118400	1050	1050	132	
240	1500	109400	128900	116800	137600	85300	100500	119900	141300	102600	120900	1080	1080	131	
240	1550	111400	131300	119000	140200	86900	102400	122200	143900	104500	123200	1120	1120	128	
240	1600	113400	133600	121100	142700	88400	104200	124300	146500	106400	125300	1160	1160	126	
240	1650	115300	135900	123100	145100	89900	105900	126400	148900	108100	127400	1190	1190	125	
240	1680	116400	137200	124300	146500	90700	106900	127600	150300	109200	128600	1210	1210	124	

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



		Luminaire output flux (lm) Warm White 730		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 840		Power consumption (W)		Luminaire efficacy (lm/W)	Photometry
Number of LEDs	Current (mA)	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Up to	
		ECOBLAST 5													
300	1250	121800	143500	130000	153200	94900	111900	133500	157300	114200	134600	1130	1130	139	
300	1300	125100	147400	133600	157400	97500	114900	137100	161600	117300	138200	1170	1170	138	
300	1350	128200	151000	136900	161300	99900	117800	140500	165600	120200	141700	1220	1220	136	
300	1400	131100	154500	140000	165000	102200	120500	143700	169400	123000	144900	1260	1260	134	
300	1450	134000	157900	143100	168600	104400	123100	146900	173100	125600	148100	1310	1310	132	
300	1500	136700	161100	146000	172100	106600	125600	149900	176600	128200	151100	1350	1350	131	
300	1550	139300	164200	148800	175300	108600	128000	152700	179900	130700	154000	1400	1400	128	
300	1600	141800	167100	151400	178400	110500	130200	155400	183100	133000	156700	1440	1440	127	
300	1650	144100	169900	153900	181400	112400	132400	158000	186200	135200	159300	1490	1490	125	
300	1680	145500	171500	155400	183100	113400	133700	159500	187900	136500	160800	1520	1520	124	

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



		Luminaire output flux (lm) Warm White 730		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 840		Power consumption (W)		Luminaire efficacy (lm/W)	Photometry
Number of LEDs	Current (mA)	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Up to	
		360	1250	146200	172300	156100	184000	114000	134300	160200	188800	137100	161600		
360	1300	150100	176900	160300	188900	117000	137900	164500	193900	140800	165900	1410	1410	138	
360	1350	153800	181300	164300	193600	119900	141300	168600	198700	144300	170000	1460	1460	136	
360	1400	157400	185500	168100	198000	122700	144600	172500	203300	147600	173900	1520	1520	134	
360	1450	160800	189500	171700	202300	125300	147700	176200	207700	150800	177700	1570	1570	132	
360	1500	164100	193400	175200	206500	127900	150700	179900	211900	153900	181300	1630	1630	130	
360	1550	167200	197000	178500	210400	130300	153600	183300	215900	156800	184800	1680	1680	129	
360	1600	170100	200500	181700	214100	132600	156300	186500	219700	159600	188000	1730	1730	127	
360	1650	173000	203800	184700	217700	134900	158900	189600	223400	162200	191200	1790	1790	125	
360	1680	174600	205800	186400	219700	136100	160400	191400	225500	163800	193000	1820	1820	124	

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

