DW Windsor

Sabre

A performance floodlight,
the intelligent choice

Performance floodlighting

Introducing Sabre, a slim and low glare range of floodlights with integral CMS and market-leading efficacy. Sabre's ultra-efficient optics provide remarkable flexibility, catering to various applications such as general purpose area illumination and architectural grazing.

Built to withstand tough environments, Sabre features a robust, maintenance-free luminaire design, ensuring optimum performance and longevity. This versatile range supports diverse lighting needs with multiple light distributions, ensuring easy installation and cost-effective replacement.

Key advantages

- Available in three size, offering one-for-one replacement up to 250W
- Can be specified with a choice of mounting options, including stirrup bracket and column post top
- Extremely reliable luminaire with an outstanding service life of over 100,000 hours
- Can be specified with a range of control options, including integral CMS [Sabre 2 & 3 only]
- Multiple LED configurations and flexible drive currents for tailored performance
- Suitable for exterior or interior applications with a choice of Diamond+ optics for precision lighting

Applications

- Car parks
- Building façades
- Rail
- Industrial sites
- Sports facilities

Scales to suit your needs

Sabre is a high quality floodlighting solution offering tailored performance thanks to a range of precision optics and drive current settings. In addition, multiple LED packages are available across three luminaire sizes which feature a uniform design, providing a consistent appearance across schemes.

Sabre 1

Lumen Range
2,400 – 5,900 lm

Power Range
17 – 47 W

LED Quantity
16

Replaces
50W SON-T

Typical Applications
Architectural Detailing / Building Façades

Sabre 2

Lumen Range
3,550 – 12,600 lm

Power Range
24 – 105 W

LED Quantity
24 / 32

Replaces
100/150W SON-T

Typical Applications
Car Parks / Area Lighting / Service Yards

Sabre 3

Lumen Range
9,100 – 24,900 lm

Power Range
59 – 198 W

LED Quantity
64

Replaces
250W SON-T

Typical Applications
Industrial Areas / Goods Yards / Multi Use Games Areas

Energy efficient

Sabre offers excellent efficiency of up to 155lm/W to deliver increased energy savings over its 100,000 lifetime, resulting in a quick return on investment and a low total cost of ownership.

Precise illumination

Available with five precise optics, Sabre can deliver a range of symmetric and asymmetric distributions to ensure light is placed only where needed, helping to protect the surrounding environment.

Easy to control

From standalone controls to integral CMS options, plus a range of NEMA and Zhaga sockets, Sabre can be specified with a range of control and connectivity options to deliver light only when needed.

Built to last

Constructed from high quality materials, including durable die-cast aluminium, Sabre is IP66 rated and features clear glass glazing, helping to protect against the elements—come rain or shine.

Versatile solution

Sabre is a highly flexible luminaire which can be wall, surface or column mounted. It is also easy to install and maintain, and can be locked in tilt for accurate illumination.
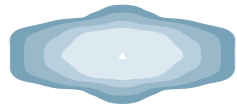
Precision optics

Suitable for a wide range of applications, Sabre's high performance optics are available in a choice of five optimised distributions for extremely efficient, precision lighting control.
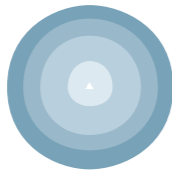
ASYMMETRIC

Diamond+ Optic – B1 (Narrow)

Diamond+ Optic – A1 (Medium)

Diamond+ Optic – C2 (Wide)

SYMMETRIC

Diamond+ Optic – C3 (Symmetric)

Diamond+ Optic – F1 (Flood)

Mounting options

Sabre can mounted several ways to support a range of lighting applications. This includes wall mounted for perimeter illumination, surface mounted for facade lighting, or column mounted for area lighting.

Wall mounted

Surface mounted

Column mounted

Design features

Sabre is a feature-packed, professional lighting solution designed to support a range of applications now, and in the future.

Excellent Performance

Sabre features high quality LEDs capable of delivering up to 24,900lm, with luminaire efficacy of up to 155lm/W

Durable Construction

Sabre is manufactured from die-cast aluminium with a polyester powder coat finish for maximum protection against the elements
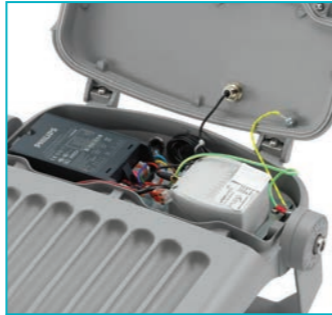
Control Options

Sabre is Smart City Ready and can be specified with multiple control options including a range of integral CMS solutions

Dedicated Optics

Sabre is offered with a selection of Diamond+ optics for precise beam control, supporting a range of lighting applications

Mounting Options

Sabre can be wall or surface mounted thanks to its versatile stirrup bracket. A post top column option is also available

Dark Sky Friendly

Sabre is offered with 2700K and 3000K colour temperatures and delivers 0% upward light when mounted horizontally

Tilt Lock

Sabre features a tilt adjustment of -45° to 45°in 5° increments with an easy to use locking function to ensure consistent illumination

Control options

From simple factory-set dimming to full CMS: enhance your luminaire through intelligent, connected sensors and control systems.

Wide Network Solutions

INTEGRAL CMS

A fully scalable solution using sensors and devices for real-time control – supports asset management and monitoring through connected CMS network.

- External node connectivity
- Central Management System (CMS)
- Intelligent lighting control

Local Network Solutions

BLUETOOTH

A cost-effective system that can be adapted on-site without specialised equipment – enables further energy saving optimisation and flexibility.

- Bluetooth wireless connectivity
- Individual or group scene control
- Controlled via smart device

Zhaga Socket (top)

NEMA Socket (top)

Stand-alone Controls

PRESENCE DETECTOR

Direct control in its simplest form, stand-alone systems are reliable and straightforward – ideal for basic energy saving.

- Pre-set dimming
- Daylight sensors
- Motion detectors

Note: Control options not available on Sabre 1 model. Check code list for more details.

Sabre lumen packages and wattages matrix

Model	No of LEDs		300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
Sabre 1	16	lm	2,419	2,789	3,148	3,497	3,836	4,165	4,482	4,789	5,084	5,368	5,640	5,900	-	-	-
		W	17	19	22	25	27	30	33	35	38	41	44	47	-	-	-
Sabre 2	24	lm	3,544	4,084	4,611	5,122	5,619	6,100	6,565	7,014	7,447	7,863	8,261	8,642	9,006	9,350	9,677
		W	24	28	31	35	39	42	46	50	54	58	62	66	70	75	79
	32	lm	4,609	5,312	5,996	6,662	7,307	7,933	8,538	9,122	9,685	10,226	10,744	11,239	11,712	12,160	12,584
		W	31	36	41	46	51	56	61	66	72	77	82	88	93	99	105
Sabre 3	64	lm	9,122	10,513	11,868	13,185	14,463	15,701	16,899	18,055	19,169	20,239	21,265	22,246	23,180	24,068	24,908
		W	59	68	78	87	97	107	117	127	137	148	158	168	178	188	198

Lumen data based on 4000K with B1 optic and no Light Output Reduction (LOR) factor applied. Data provided as indication of performance. Please refer to photometric files for individual optic results.
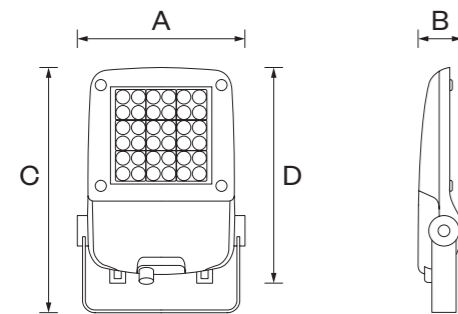
Luminaire dimensions

	Dimensions (mm)				Weight (kg)	Windage (m²)
	A	B	C	D		
Sabre 1	283	73	390	356	3.8	0.016
Sabre 2	386	81	488	415	7.8	0.029
Sabre 3	460	94	595	510	13.1	0.045

CCT details

	Light Output Reduction Factor	S/P Ratio
4000K	1.00	1.5
3000K	0.91	1.4
2700K	0.80	1.3

Sabre 1

Sabre 2
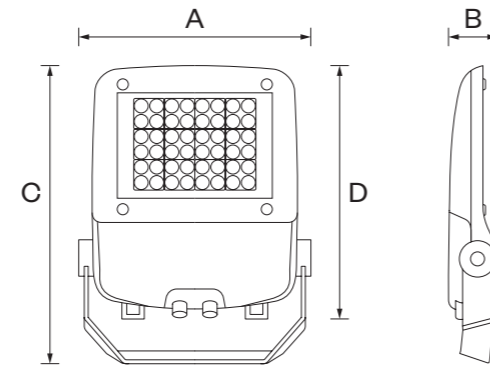
Sabre 3
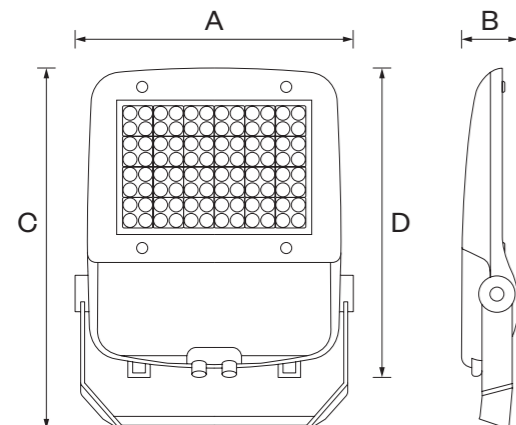
Product codes

				Code	Example
Model					
Sabre 1				SA1	
	Sabre 2			SA2	SA2
		Sabre 3		SA3	
Light Engine					
16 LED	-	-		16	
-	24 LED	-		24	
-	32 LED	-		32	32
-	-	64 LED		64	
Colour Temperature					
2700K				27	
3000K				30	30
4000K				40	
Distribution					
Asymmetric narrow - Diamond+ B Optic				B1	
Asymmetric medium - Diamond+ A Optic				A1	
Asymmetric wide - Diamond+ C Optic				C2	F1
Symmetric - Diamond+ C Optic				C3	
Wide flood - Diamond+ F Optic				F1	
Drive Current					
Drive currents from 300mA to 1000mA in 50mA increments. Insert drive current value (eg 750mA - 750) Note: Sabre 1 16 LED = 850mA maximum				300 / 350 / 400 450 / 500 / 550 600 / 650 / 700 750 / 800 / 850 900 / 950 / 1000	750
Mounting					
Stirrup bracket [standard]				R	R
Ø76mm Post top				PT	
Colour					
RAL 7046 Mid grey				CF	CF
Connectivity & Control					
No photocell				N	
Photocell 35 lux (1:0.5) [Sabre 2 & 3 only]				U	
Part night switching Photocell 35 lux (1:0.5) (switch off midnight - 05:30) (Elexon regime 762) [Sabre 2 & 3 only]				A4	
Photocell 35 lux (1:0.5) + pre-programmed dimming (dimmed to 50% midnight - 05:30) (Elexon regime 531) [Sabre 2 & 3 only]				D8	
3 pin NEMA [Sabre 2 & 3 only]				E	
5 pin NEMA [Sabre 2 & 3 only]				C3	
7 pin NEMA [Sabre 2 & 3 only]				D2	IUC
4 pin Zhaga socket [Sabre 2 & 3 only]				Z4	
Integral CMS - Urban Control [Sabre 2 & 3 only]				IUC	
Integral CMS - Telensa [Sabre 2 & 3 only]				ITE	
Integral CMS - Mayflower [Sabre 2 & 3 only]				IMA	
Pre-programmed dimming					
D4i/SR Ready					
Presence Detector (optional)					
Presence detector [Sabre 2 & 3 only]				PD	-

Example Code: **SA2 32 30 F1 750 R CF IUC**

Sabre

Key Features

Range of performance floodlights with three sizes offering one-for-one replacement up to 250W

Choice of mounting options, including stirrup bracket for wall and surface mounting plus column post top option

Extremely reliable luminaire with an outstanding service life of over 100,000 hours

Multiple control options, including integral CMS, plus NEMA and Zhaga socket options

Dark Sky friendly with warmer colour temperatures available and 0% ULOR (at 0° inclination)

Options

Sabre 1: (16 LEDs) for mounting at 4-6 metres

Sabre 2 (24 / 32 LEDs) for mounting at 5-8 metres

Sabre 3: (64 LEDs) for mounting at 8+ metres

Optical Control

Asymmetric - narrow (Diamond+ B1)

Asymmetric - medium (Diamond+ A1)

Asymmetric - wide (Diamond+ C2)

Symmetric (Diamond+ C3)

Wide flood (Diamond+ F1)

Lifetime

> 100,000 hours L80 B10

Total Luminaire Lumens

Sabre 1: 2,400 - 5,900 lm

Sabre 2: 3,550 - 12,600 lm

Sabre 3: 9,100 - 24,900 lm

Colour Temperature

2700K / 3000K / 4000K

Colour Rendering Index

70Ra (4000K)

80Ra (2700K / 3000K)

Luminaire Efficacy

Up to 155lm/W

Drive Current

300mA - 1000mA (in 50mA increments)

Mounting

Stirrup bracket (standard)

Post top [Ø60-76mm]

Tilt / Inclination

-45° to +45° (5° increments)

Control

External switch: Time clock

Photocell: Miniature PEC or NEMA socket

Dim: Factory set dimmed / customer specified dimming

Compatible with any external CMS (7 pin Nema)

Integral CMS [Sabre 2 & 3 only]

Presence detector

Colours

RAL 7046 Mid grey

Materials

Body: High pressure die-cast aluminium

Glazing: Glass

Seals: Silicone

Finish: Polyester powder coat

Accessories

Front and rear glare shields available

Installation & Maintenance

Includes SupportTag® for easy luminaire maintenance

Operational temperature range: -40°C to +40°C

Surge protection: 10kV

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DW Windsor is a Carbon Neutral company

MADE IN BRITAIN

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