



The power to make you

think again



Large area lighting. Re-imagined.

For large area, high output illumination without the need to compromise on design, the Katana lighting system offers a powerful lumen package of up to 88,000 lumens, with precise optical control.

Providing ultimate flexibility: customisable to your specific project requirements. Katana's modular design, with diverse mounting options and lighting distributions, gives you the power to build your perfect solution.

Highly efficient. Up to 130lm/w. Save energy and reduce (installation and maintenance) costs with Katana.

Katana. The only large area lighting system you'll need. From 5200lm to 88000lm.

Key advantages:

- Modular and flexible mounting
- High lumen output
- Low weight. Suitable for retrofit onto existing columns
- 24 flexible optical solutions
- With Diamond+ technology for the ultimate in precise lighting control
- Impressive energy efficiency
- · Range of control options
- Smart City ready

Applications:



Large road lighting junctions / Motorway interchanges





areas - goods yards etc.





Rail ports



Case Study

Results worth thinking about

Take a look at this typical 8m high car park. With the flexibility to tailor your solution, significant energy savings are achievable over traditional HID light sources.

Post top mounted symmetrical optic, high power lamp to LED upgrade

Project	Car Park
Target Lighting Class	CE3
Minimum Maintained Average Lighting Level	15 Lux
Minimum Maintained Overall Uniformity	0.25

Project Description

	Original Scheme	New Scheme	
Light Source	1x400W MBI-T	Katana Post Top 1 module 4k 960mA	
Total Product Circuit Watts (W)	445	210	
Total Luminous Flux (lm)	36,000	21,124	
Achieved Minimum Average	15.08	15.03	
Minimum Maintained Average	3.4	4.0	
Uo	0.23	0.29	
Weight (kg per unit)	24	13	
Lm/kg	1,500	2,347	
	<u> </u>		
Qty Lanterns	12	12	
Total Energy (W)	5,340	2,520	
		Energy saving of	
		53 %	



Standard options

Katana Post Top

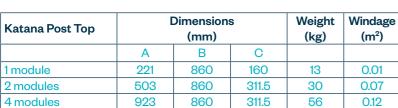
For mounting at 8-20 metres

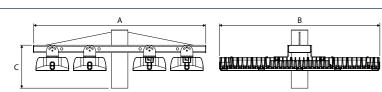
Options

- 1 module: up to 22000lm (210W)
- 2 modules: up to 44000lm (396W)
- 4 modules: up to 88000lm (792W)

Suggested applications:

- · Lighting of car parks
- Lighting large areas (from a minimum number of lighting points)





Katana Direct Post

For mounting at 8-15 metres

Options

- 2 modules: up to 44000lm (396W)
- 3 modules: up to 66000lm (594W)

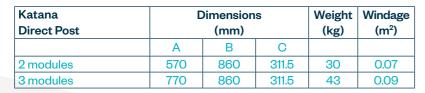
Suggested applications:

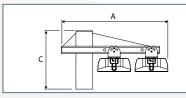
- Perimeter lighting of car parks
- · High level road lighting
- Large spaces

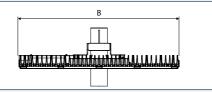














Katana Wall / Ceiling Mount For mounting at 8-10 metres

Options

- 1 module: up to 22000lm (210W)
- 2 modules: up to 44000lm (396W)

Suggested applications:

- Lighting of building surrounds in large open areas
- · Lighting of platforms from buildings



Mount



A				В			
2 modules	421	860	195	26			
1 module	221	860	160	13			

Introducing Diamond+

With 24 standard optical distributions for ultimate flexibility and precise lighting control

An evolution of our award-winning and patented Diamond Optic® reflector technology, Diamond+ gives you the ability to create widely different lighting distributions from a single luminaire.

Choose Diamond+ for refined lighting distribution

Diamond+ A Optic



A1, A2, A3, A4 or A5

Typical applications: Wide roads and dual carriageways

(M classes)





D1, D2, D3, D4 or D5

Typical applications: Diamond+ B Optic Diamond+ C Optic



Options: B1, B2, B3, B4 or B5

Typical applications:



Narrow roads and footpaths

C1, C2, C3, C4 or C5

Typical applications: Area applications





Options:

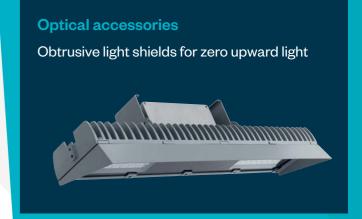
Standard roads and wide footpaths



Options:

Typical applications: New flood optic for perimeter and car park lighting

Please refer to dwwindsor.com/katana for full optical configurations



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Cooling fins

Build your perfect lighting solution

The Katana system is available in a range of configurations.
A selection of standard mounting options are illustrated within this brochure. For more aspirational arrangements please see our Katana urban system brochure or visit dwwindsor.com/katana

Fully CMS compatible

With room for existing and future Smart City control

Tailored control

Integral LED driver with a wide range of control and drive current options

Surge protection 10KV as standard

Adjustable tilt

Each module individually adjustable (5° increments)

Performance lighting

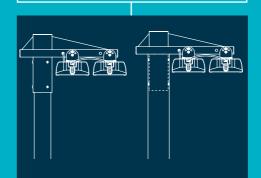
LUXEON TX LEDs (from 64 to 256 LEDs - choice of 1 to 4 Katana modules) up to 130lm/W

24 optical distributions as standard

Ability to combine different distributions within each module for ultimate optical flexibility

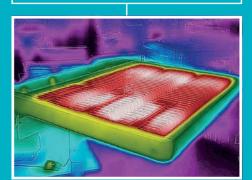
Flexible mounting options

Post top / direct post [76, 89, 114mm Ø] Wall/ceiling mount



Superior thermal management

Air vents between the LED modules facilitate air flow. Temperature sensitive electronics are isolated



Katana Module - Specification

IP66 | IK09 | CLASS I | CLASS II

Features

Highly efficient, configurable lighting solution

Flexible range of outputs and lighting distributions

Ability to combine different distributions in a single module for ultimate optical flexibility

Flexible mounting options

High efficacy

Fully controllable

Optical control

Diamond+ (see page 5)

Obtrusive light shield(s)/hood

Optional diffuse glazing (on special request)

Light source

LEDs: Luxeon TX

Number of LEDs: 64

L90 lifetime prediction

In excess of 100,000 hours (all variants)

Colour temperature

2700K (very warm white)

3000K (warm white)

4000K (neutral white)

Colour rendering index

70Ra (3000 / 4000K)

80Ra (2700 / 3000K)

Luminaire efficacy

Up to 130lm/W (total measured luminaire efficacy)

Drive Current

From 200mA - 1000mA (in 50mA increments)

Gear, switching and control

LED Driver: Philips Xi Lite / Fully programmable

Switch: On/off through conventional PEC or NEMA photocell

Dim: Factory set dimmed / customer specified dimming

CMS: Compatible with all available CMS systems

Surge protection

10kV as standard

Colours

RAL 7046 Mid Grey

Materials

Body: High pressure die cast aluminium

Glazing: Toughened glass

Seals: Silicone

Finish: Polyester powder coat

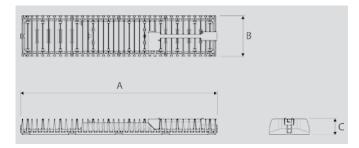
Installation and maintenance

Each module individually adjustable (5° increments)

Operational temperature range: -45° to +50°C

Modules supplied pre-cabled to suit application

For luminaire weight and windage please see pages 4 and 5



		Weight (kg)		
	А	В	С	
SINGLE MODULE	860	176	70.5	10

Katana® is a registered design

Due to continuous product development the details within this brochure are subject to change at any time, please contact us for the most up-to-date information or visit: www.dwwindsor.com

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