

Serpentine System

IP65 LED linear lighting system



RADIANT

Serpentine IP 65 LED linear lighting system

The Radiant Serpentine exterior LED linear system is the first system of its type to be hand bendable on-site, and to offer adjustment in both the axial and vertical planes.

The Serpentine system is designed to be used in a wide variety of exterior building façade lighting, wall-grazing, landscape and other exterior architectural lighting applications.

The individual LED lighting modules can rotate through 30 degrees around the axis of the system and 30 degrees between the joints allowing the system to be curved to follow building profiles and architectural details and for the light output to be aimed to give optimum grazing or feature lighting.

The Serpentine Flex version is adjustable in three dimensions to follow any complex building profile. All versions of the Serpentine system can be locked after aiming with the use of an Allen key.

Continuous lengths of linear lighting up to 5 metres can be powered from a single external 30 Volt - 48 Volt DC power supply. The Serpentine system is normally supplied in lengths of 8 x 200mm modules which plug together on site for ease of handling.

High efficiency lenses and reflectors in a variety of beam angles and beam profiles can be fitted to the Serpentine system.



RIBA 2010 award winner
Client TFL
Architect: Julian Cowie
Urban and lighting design: Burns and Nice



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The Serpentine system incorporates high efficiency constant current driver circuits running up to 8 high power white or RGB LEDs with a total power rating of up to 15 Watts per module depending on LED type.

DC LED modules incorporate Cree XPE LEDs while the AC LED modules use the Seoul Semiconductor Acriche LED array. The RGBW versions utilise Cree MC E multi die LEDs or Luxeon Z LEDs.

The Serpentine modules and joints are pressure die cast in marine grade aluminium that has a chromate pre treatment prior to being painted with a high quality exterior grade polyester powder coat system.

This will ensure many years of corrosion free life. All fixings are stainless steel protected, where necessary, with coatings or barriers to prevent galvanic corrosion with the aluminium.

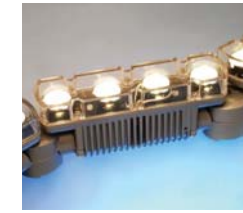
Lenses, reflectors and anti-glare accessories can be changed on site with some versions.



Serpentine with UV stop glass windows
4 x 3.5W Citizen or Sharp COB LEDs with reflectors

RAD LSERP C

Integral LV constant current driver
Integral driver
30 Volt to 48 Volt DC power supply
Silver finish



Serpentine with PC cover
4 x 2.4W Cree XPE LEDs with lenses
RAD LSERP F

Integral LV constant current driver
Integral driver
30 Volt to 48 Volt DC power supply
Silver finish



Serpentine Acriche 2
4 x 2W Acriche 2 LEDs
RAD LSERP A

No Driver or power supply.
Direct mains supply at 230 V AC.
Silver finish



Serpentine RGBW
4 x 3W Cree MC E RGBW LEDs or Luxeon Z LEDs

RAD LSERP RGB

Integral RGBW DMX driver controller
24 Volt DC supply



Serpentine Flex
4 x 3W Cree XPE LEDs or
4 x 3W Cree MC E RGBW LEDs
4 x Sharp or Citizen COB
Other LED types can be used

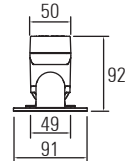
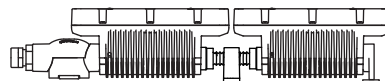
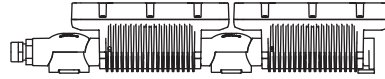
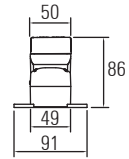
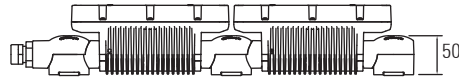
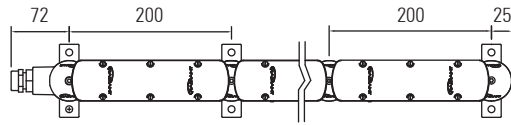
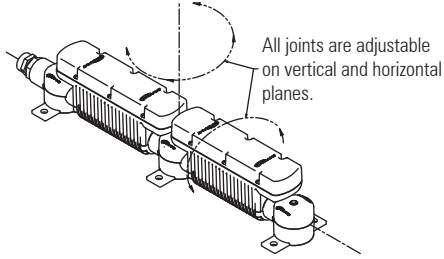
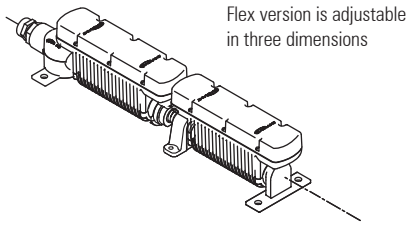
RAD FLEX

Integral LV constant current driver or RGBW
DMX driver / controller
30 Volt to 48 Volt DC power supply



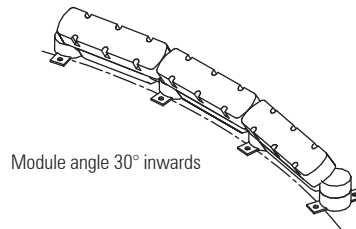
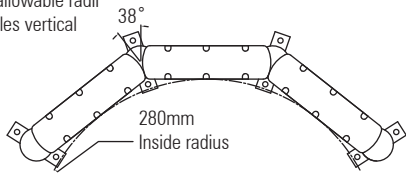
Serpentine lenses

Asymmetrical - add A
Elliptical - add E
Wide - add W
Wide frosted - add WF
Medium - add M
Medium frosted - add MF
Narrow - add N
Narrow frosted - add NF



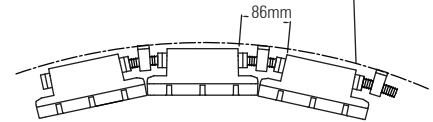
Typical bend radii

Minimum allowable radii with modules vertical

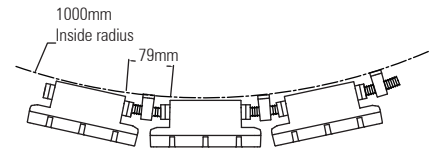
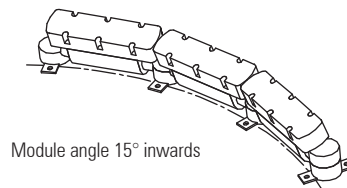
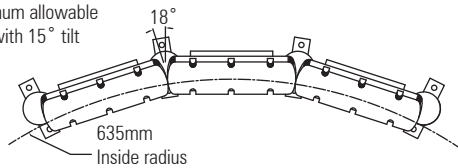


Flex version with 86mm spacing bends to 1000mm

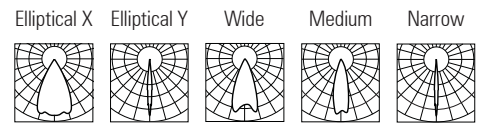
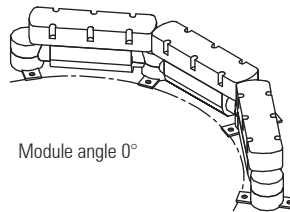
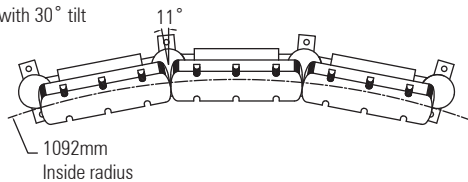
1000mm Outside radius



Minimum allowable radii with 15° tilt



Minimum allowable radii with 30° tilt



Create an order-code by selecting one option from each column in the table below.
eg. SERPENTINE . IP65 . 4 . 200mm . 40K . CRI 80 . E . Adjustable . Clear . End . Black .

Product Code	IP	No. of LEDs per module	Length (mm)	Colour Temp. (K)	CRI	Optics	Cover	Bracket Type	Feed	Finish
SERPENTINE	65	4=25mm	200mm to 1800mm	27 =2,700K 30 =3,000k 35 =3,500k 40 =4,000k 45 =4,500k 50 =5,000k	80 90	A = asymmetrical E = elliptical W = wide WF = wide frosted M = medium MF = medium frosted N = narrow NF = narrow frosted	Clear Filter	Direct fixing side Direct fixing end Adjustable Spring Clip Flexible - connector	End Side Back	Black White Any RAL-colour
SERPENTINE REMOTE - DRIVER		2=50mm LED spacing	Increments of 200mm	RGBW RGBA RGB Dynamic white						

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