

# RADIANT

ARCHITECTURAL LIGHTING

2018

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## ARCHITECTURAL LIGHTING

Established in 2008 in London, Radiant Architectural Lighting provides innovative lighting solutions for projects around the world.

Innovation is at the heart of Radiant. Bespoke custom-built products are what we do best, with many of today's 'standard' products originating from specific project requests.

Everything we create is made to order and is designed and manufactured in the UK.

Radiant linear lighting solutions are designed with flexibility, adjustability and performance in mind, whilst embracing the latest lighting technologies and processes to guarantee longer lasting and efficient lighting systems for any architectural application.

With a strong heritage in luminaire design, Radiant excels in designing products for both interior and exterior application areas, to give lighting designers the perfect tools to illuminate and enhance architecture beautifully.

Radiant has worked with leading designers on a plethora of high profile global projects including the award-winning Strasbourg Cathedral, Zaha Hadid designed Heydar Aliyev Centre, Burberry, Ritz Hotel Paris, Harrods, Dior stores and Heathrow Airport.

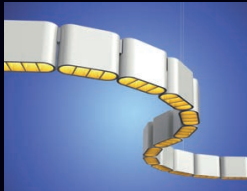
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## Linear Lighting



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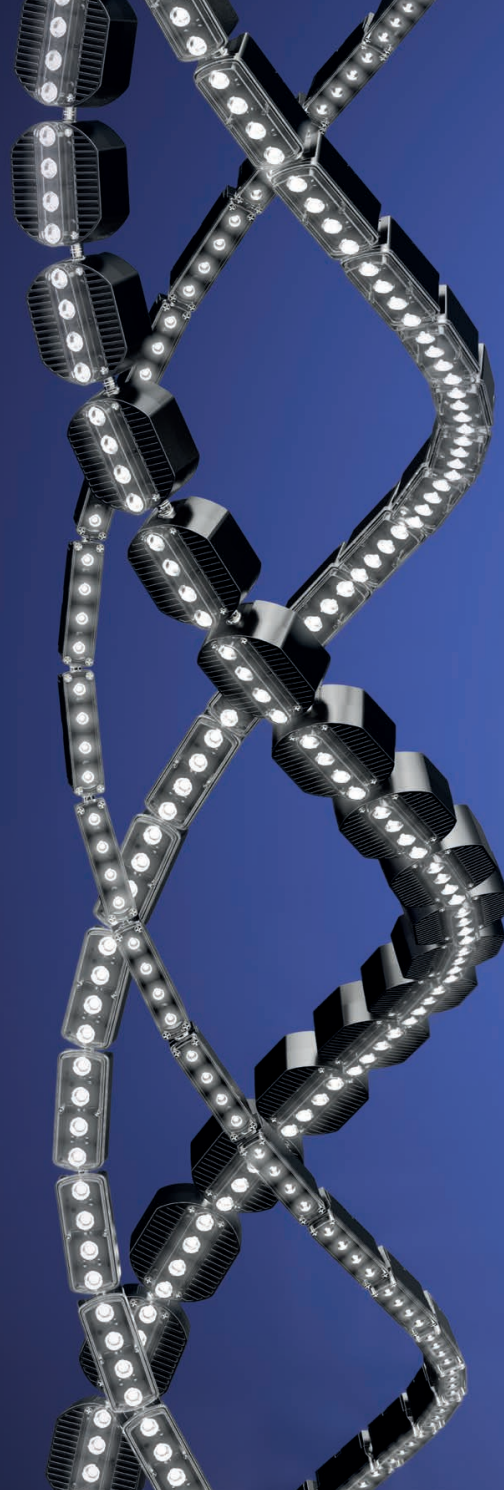
## 3D LED Flex Range

The Radiant 3D LED Flex system has developed from a custom solution for the Zaha Hadid designed Heydar Aliyev Centre into a comprehensive modular linear lighting system with a vast range of options.

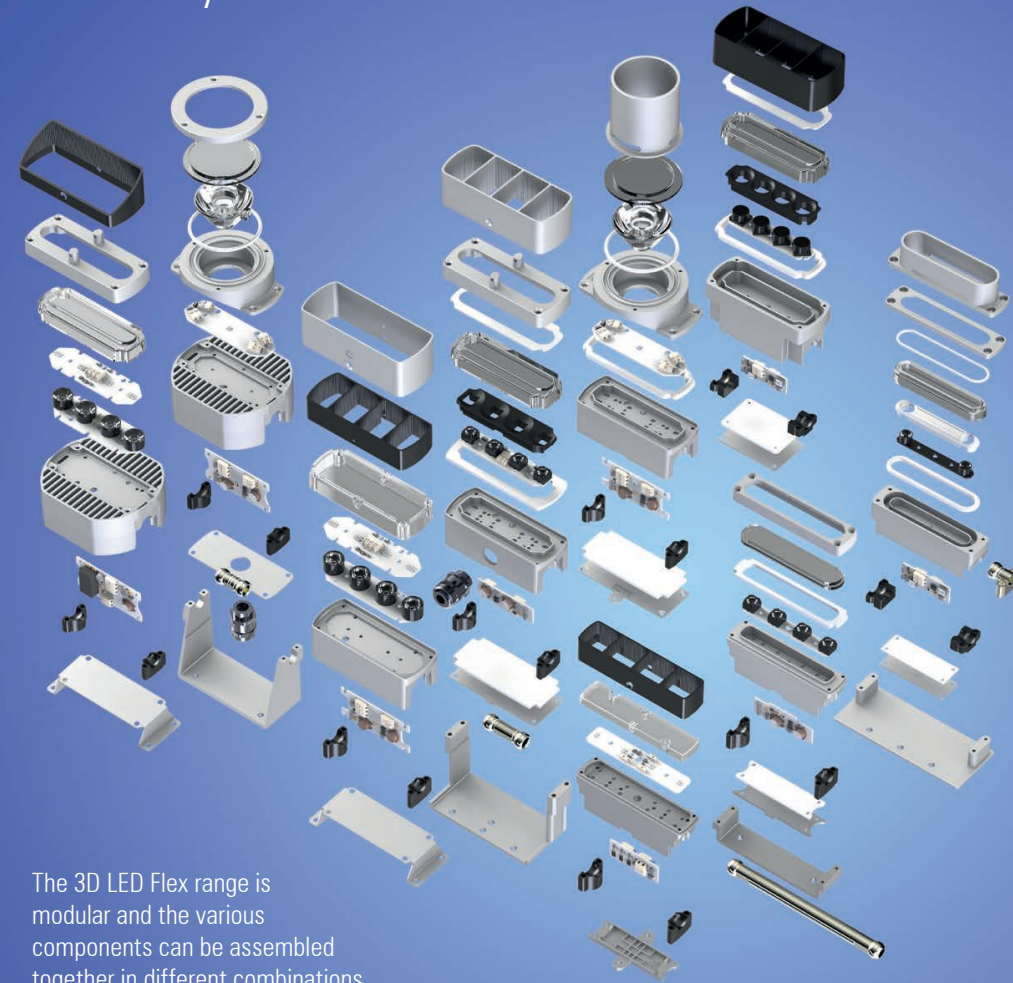
Ideal for use in a wide range of interior, exterior and underwater lighting projects where curved lines of light are needed to illuminate non-linear building surfaces, columns and domes.

The patented mechanical joint structure allows the individual modules to be bent and twisted in three dimensions to follow the most complex building contours.

- Flexible in 3 Dimensions - able to follow complex, non-linear building surfaces
- Three sizes, for small medium and large scale projects. Up to 8,000 lumens per mtr from the 100 size down to 2,500 lumens per mtr from the 25.
- IP ratings of IP20, IP44, IP65, IP66 and IP68
- A wide range of LED light engine, reflector and lens options available. RGB, RGBW, and dynamic white.
- Wide range of bracketry and anti-glare accessories. Custom lengths to order based on a 100mm module length up to 2 mtrs.



## 3D LED Flex Range Modular system



The 3D LED Flex range is modular and the various components can be assembled together in different combinations to meet project requirements.

Components such as anti-glare snoots or brackets can be customized for each project.

We are continuously developing new components for the system as the scope of our projects expands.



## 3D LED Flex 100 IP20

### Modular, 3D flexible LED interior linear lighting system

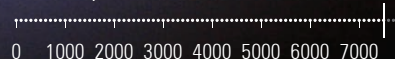
The Radiant 3D LED Flex 100 system was the first type in the range and was originally developed for the Zaha Hadid designed Heydar Aliyev Centre project to provide all ambient lighting in the auditorium. The system has been further developed for use in a wide variety of other architectural lighting projects requiring cove lighting and wall wash lighting where the building surfaces are non-linear with curved profiles and facades.

The patented articulated joint system joining the heat sinks allows the system to follow curved building surfaces while maintaining a 25 mm spacing between LEDs, thus ensuring continuous lit effects without shadows or dark areas.

Each LED heat sink module can operate up to 10 Watts of LEDs giving a light output of over 8,000 lumens per mtr.

Integrated LV DC to DC constant current drivers allow long runs to be powered from a single remote power supply.

Lumens per mtr



Heydar Aliyev Centre  
Architect Zaha Hadid Associates  
Lighting design MBLD





Burberry store, Regent Street, London. Lighting design by Russell Lipscombe  
The McEwan Hall, University of Edinburgh. Lighting design by Buro Happold



28 x 0.3 Watt medium power LEDs with white reflector



4 x Cree XPE LEDs with lenses



Xicato XTM LEDs without optics



1 x 8.5 Watt COB LED array with reflector

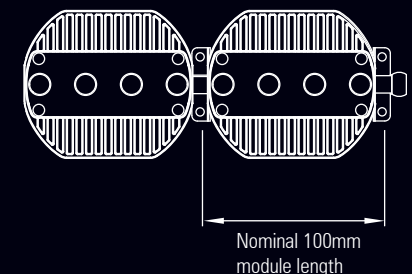
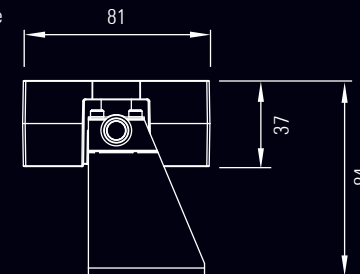


8 Watt RGBW LED array with asymmetric reflector



8 Watt RGBW LED array with colour-blending lens

Standard module  
with adjustable  
angle bracket:





# 3D LED Flex 100 IP66

## Modular, 3D flexible LED exterior linear lighting system

The Radiant 3D LED Flex 100 IP66 system has been developed for use in larger scale exterior lighting applications where the building surfaces are non-linear with curved profiles including columns, domes and curved facades.

The articulated joint system allows the LED heat sinks to follow three dimensionally curved surfaces while maintaining a 25 mm spacing between LEDs, thus ensuring continuous lit effects without shadows or dark areas.

A digital thermal control system ensures that the LEDs work at an optimal temperature even in high ambients.

Lumens per mtr



Anti-glare snout and adjustable angle brackets



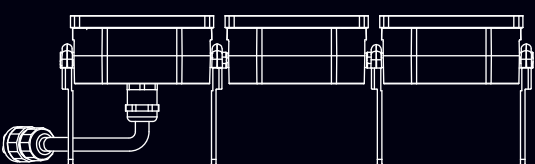
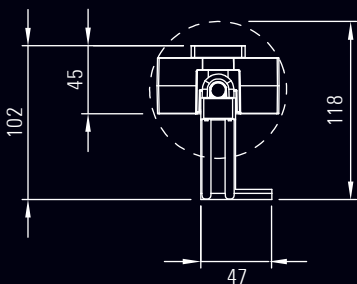
Single module with lenses on adjustable angle bracket



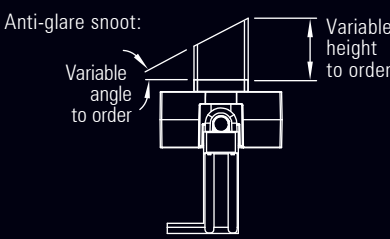
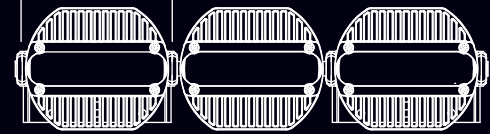
RGBW version with Gaggione lenses



28 x 0.3 Watt medium power LEDs with white reflector



Nominal 100mm module length



Anti-glare snout:

Variable angle to order

Variable height to order



## 3D LED Flex 40 IP20

### Modular, IP20 3D flexible LED interior linear lighting system

The Radiant 3D LED Flex 40 IP20 system incorporates the widest range of versions and options and has been specified and installed on the greatest number of projects to date.

The system can be run at up to 50 Watts per mtr and provides over 3,500 lumens per mtr depending on LED colour temperature and type.

The system includes both interior IP20, exterior IP66 and underwater IP68 versions.

Lumens per mtr



RGBW IP20 version with 3000 K white LEDs and white reflector



Hammersmith Apollo London, foyer and auditorium. Lighting design by Jim Morse. LUX Award winner





Dorsett Hotel, Shepherds Bush, London. Lighting design by EQ2 Light



Church in Central London

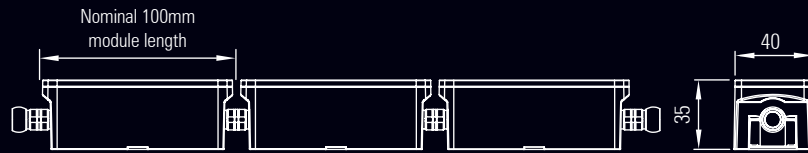


Dior store in Centria Mall, Riyadh. Lighting design by Metis Lighting

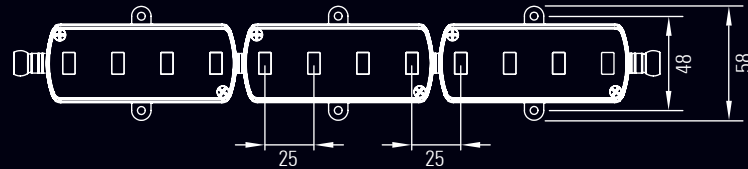


# 3D LED Flex 40 IP20 and IP66

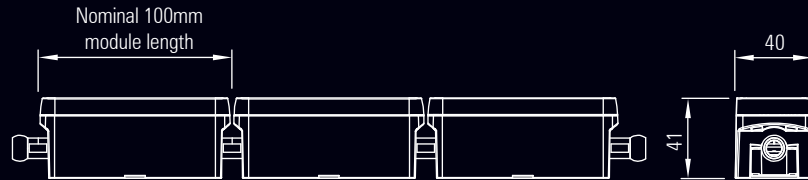
Standard  
IP20 version  
Front view:



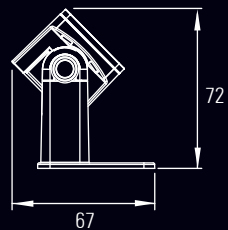
Standard  
IP20 version  
Plan view:



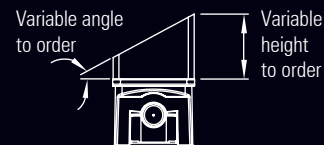
Standard  
IP66 version  
Front view:



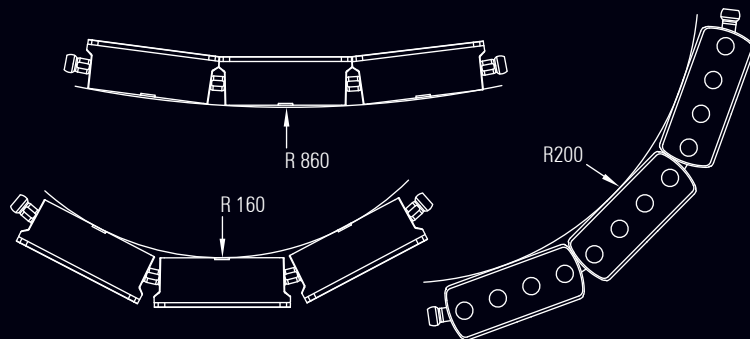
Standard  
IP20 version  
with adjustable  
angle bracket:



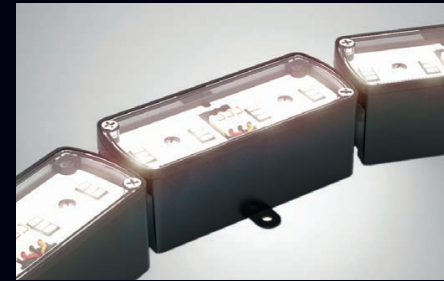
Standard  
IP20 version,  
anti-glare snoot:



Standard IP20  
modules -  
minimum  
bend radii:



Custom ball-joints  
and brackets  
(to order) can give  
different bend radii  
where needed



IP20 version with 8 or 12 x 0.3W LEDs per module



IP20 version with Cree XPE LEDs and lenses



IP20 version with two colour anti-glare louvre snoot



IP20 version - RGBW with white reflector



IP20 version with Gaggione colour mixing lenses



IP66 version with Gaggione lenses and snoot



IP66 version with 8 or 12 x 0.3 Watt LEDs per module



IP66 version with Cree XPE LEDs and lenses

## 3D LED Flex 40 IP66

### Modular, IP66 3D flexible LED exterior linear lighting system

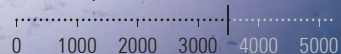
One of the early developments of the 3D LED Flex 40 system was an exterior IP66 rated version so that the same system can be used to light both interior and exterior projects. The system has also been used to light pools and hammams where high humidity would cause problems for an IP20 rated system.

The most popular elliptical optic version has been used to graze domes, curved roof surfaces and facades. The 100 mm module allows the system to be tailored to fit any building size and shape.

The system can be run at up to 50 Watts per mtr providing up to 3,500 lumens per mtr. With many options for LED light engines, optics, mounting brackets and anti-glare accessories the system can be configured for each project.

A thermal control system is used in high ambient conditions to keep the LEDs working at an optimum temperature.

Lumens per mtr

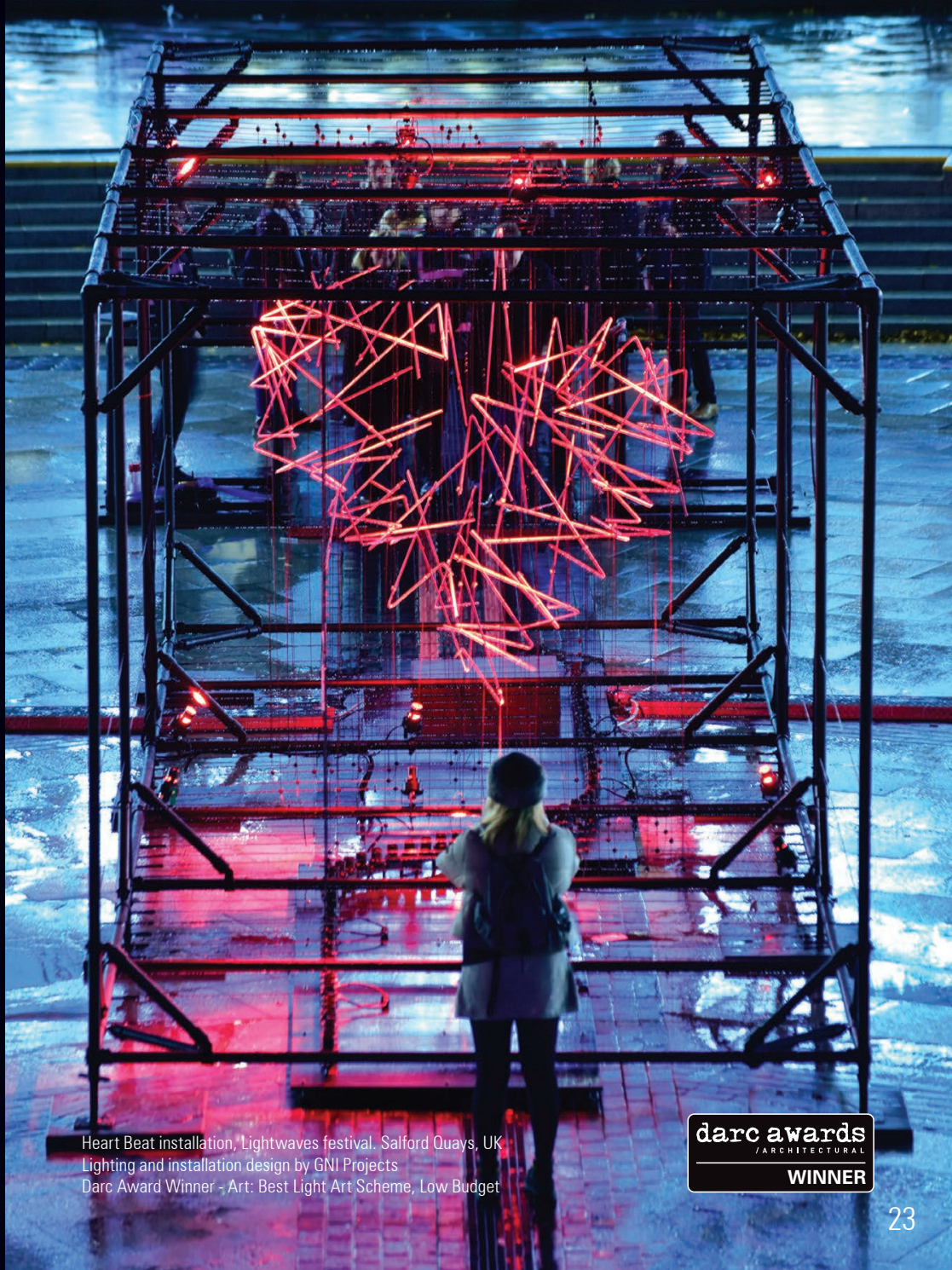


University of Edinburgh Old College dome  
Lighting design by Nich Smith Lighting Design





3D LED Flex 40 IP66 system. Each module comprises 4 x Luxeon Z red LEDs with a Gaggione ultra-narrow beam lens, and custom height anti-glare snoot. Each module is individually addressable via DMX



Heart Beat installation, Lightwaves festival, Salford Quays, UK  
Lighting and installation design by GNI Projects  
Darc Award Winner - Art: Best Light Art Scheme, Low Budget







3D LED Flex 40 System IP66, single modules with lenses and adjustable angle mounting brackets



Strasbourg Cathedral, France. Lighting design by Acte Lumiere.  
Darc Award Winner - Structures: Best Exterior Lighting Scheme, High Budget





# 3D LED Flex 40 IP68

## Modular, IP68 3D flexible LED underwater linear lighting system

The Radiant 3D LED Flex 40 IP68 system is designed for use in underwater applications where curved lines of light are required. The system components are cast in 316 L stainless steel and are suitable for use in saline and chlorine environments including pools, fountains and marine projects. The pressed glass windows are bonded to the module bodies and all LED and internal driver boards are potted in silicone resin to ensure long working life at up to 2 mtrs depth.

The patented articulated joint system joining the LED modules allows the system to bend and twist in three dimensions to follow curved building surfaces while maintaining a constant spacing between LEDs. Output up to 3,000 lumens per mtr.



4 x Cree XPE LEDs and lenses



Anti-glare snout and adjustable angle brackets

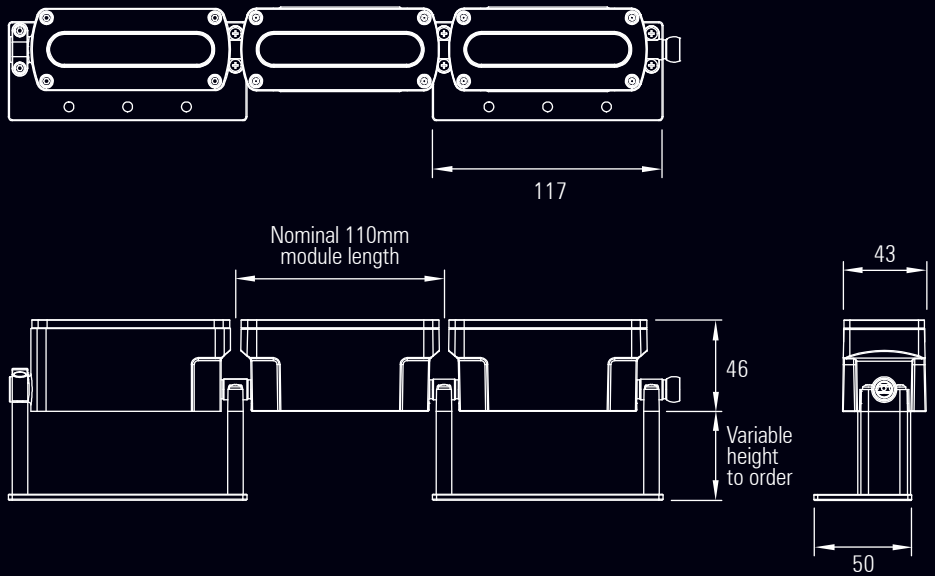


Single module on adjustable angle bracket



Cable connection between modules

Standard modules with adjustable angle brackets:





# 3D LED Flex 25 IP20

Modular, 3D flexible LED interior linear lighting system

The Radiant 3D LED Flex 25 system incorporates many of the design features of the 100 and 40 systems but with a smaller width of only 25 mm.

The system is ideal for use in smaller architectural, retail and hospitality lighting applications.

This is the most cost effective version of the 3D LED Flex range and has a light output of up to 2,500 lumens per mtr.



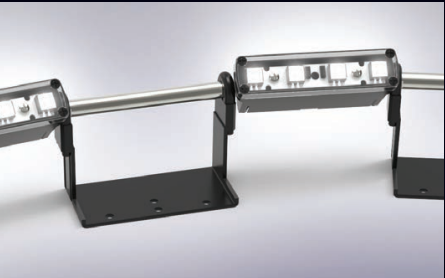
8 or 12 medium power LEDs per module



4 x Cree XPE LEDs with lenses



4 x Cree XPE LEDs with lenses and anti-glare snoot



Double spaced modules



MGM Macau, China. Lighting design by Berkin Lighting



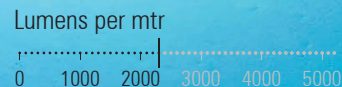
# 3D LED Flex 25 IP66

## Modular IP66 3D flexible LED exterior linear lighting system

The Radiant 3D LED Flex 25 IP66 system is designed to be used in a wide variety of exterior lighting applications where a lower light output and smaller width is needed than the larger types also available in the range.

The system is ideal for use in smaller architectural and facade lighting applications. The system is available in a wide variety of LED, lens and reflector options and can be supplied with pressed glass windows for use in high sunlight situations or where sand abrasion is an issue.

A thermal control system is used in high ambient conditions to keep the LEDs working at an optimum temperature.

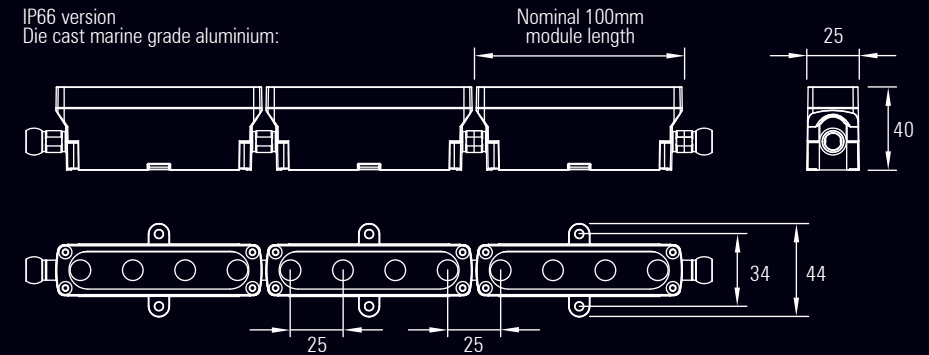


Lens version with 3 blade anti glare shroud

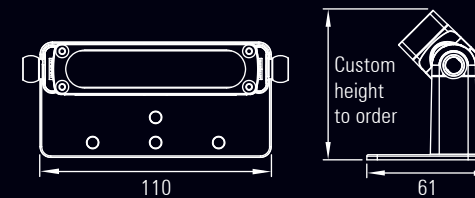


Lens version with fixed angle mounting brackets

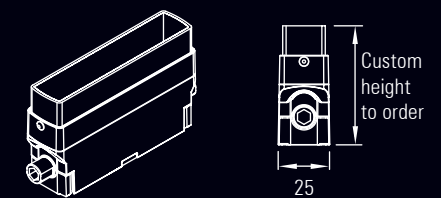
IP66 version  
Die cast marine grade aluminium:



Adjustable angle mounting bracket:

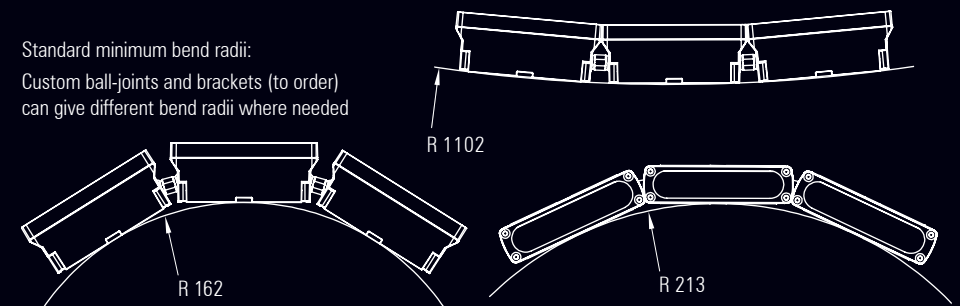


Anti-glare shroud:



Standard minimum bend radii:

Custom ball-joints and brackets (to order)  
can give different bend radii where needed





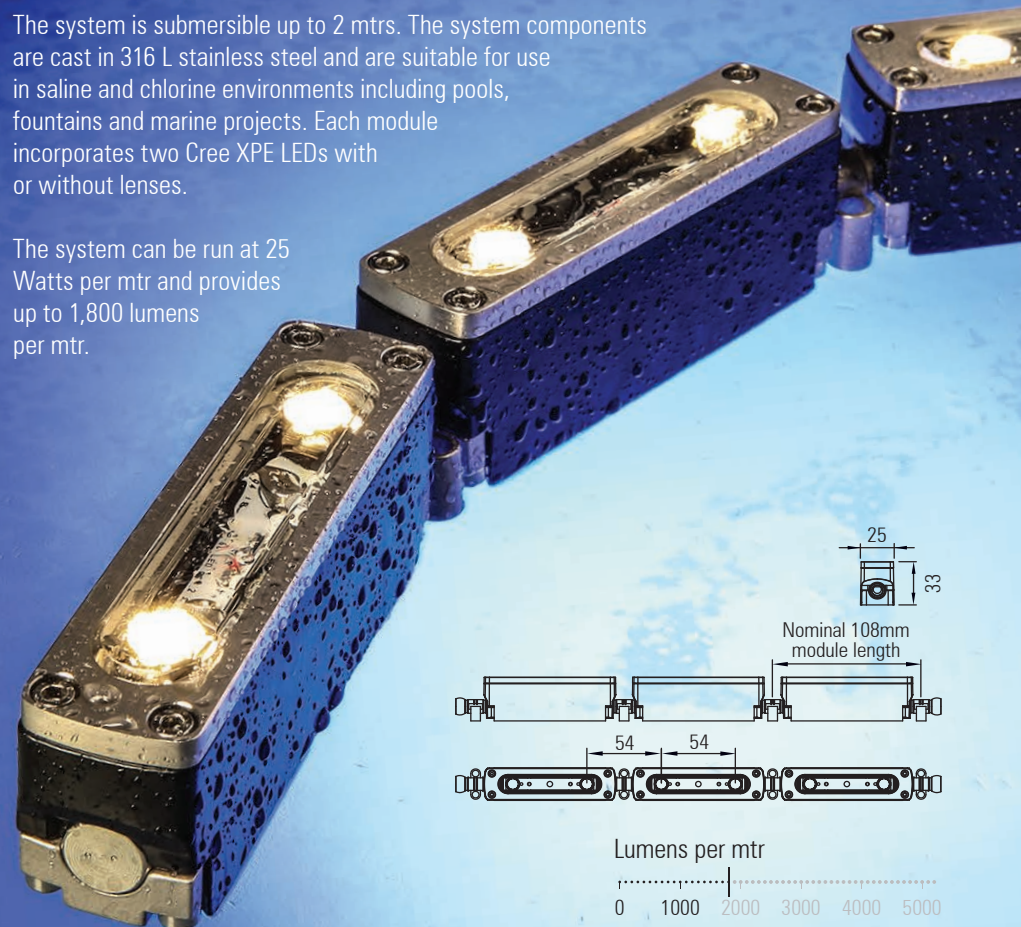
## 3D LED Flex 25 IP68

### Modular IP68 3D flexible LED linear lighting system

The Radiant 3D LED Flex 25 IP68 system is designed for use in underwater applications where the building surfaces are non-linear with curved profiles. The articulated joint system joining the LED heat sinks allows the system to follow curved building surfaces while maintaining a constant spacing between LEDs, thus ensuring continuous lit effects without shadows or dark areas.

The system is submersible up to 2 mtrs. The system components are cast in 316 L stainless steel and are suitable for use in saline and chlorine environments including pools, fountains and marine projects. Each module incorporates two Cree XPE LEDs with or without lenses.

The system can be run at 25 Watts per mtr and provides up to 1,800 lumens per mtr.



3D LED Flex 25 IP68 with adjustable angle brackets and anti-glare snoot accessory



Ritz Hotel, Paris. Lighting design by Schwinghammer Lighting Design NY



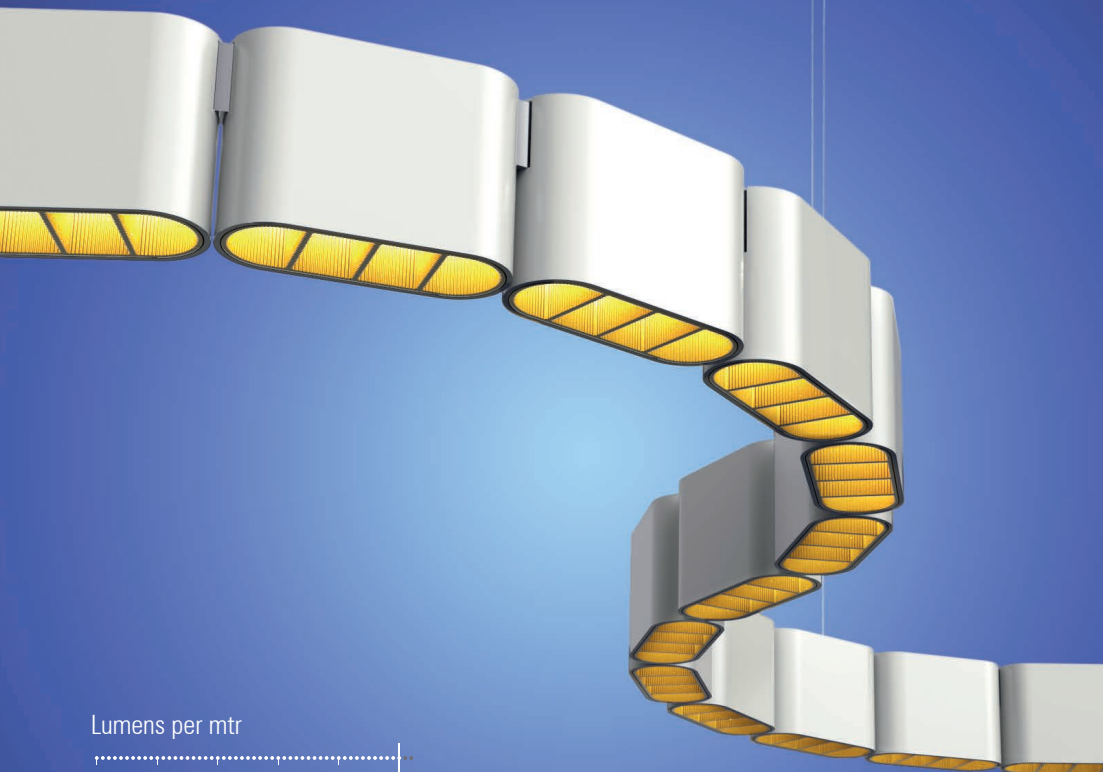
# Centura

## Modular, interior flexible linear LED pendant system

Centura is a flexible LED interior linear lighting system, designed to make complex designs simple. An innovative design offers the flexibility to follow curved surfaces, encircle columns and domes, and to make irregular shaped pendants, all whilst offering excellent lighting control and uniformity.

The system is available in uplight and downlight solutions, surface mounted or suspended, and with a light output of up to 5,000 lumens per mtr, making it ideal for a wide range of application areas including architectural, hospitality, leisure and retail.

The body and anti-glare louvres are available in all RAL colours, including gold for warmth, black for a dark light effect and red for dramatic impact.



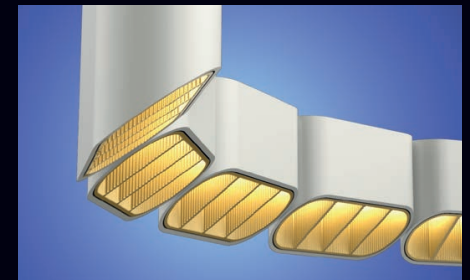
Lumens per mtr



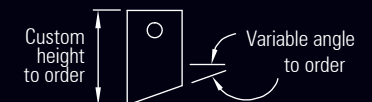
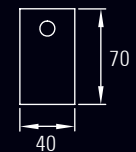
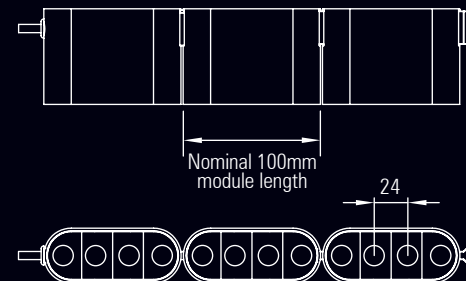
All black finish



Up and down version with black louvres



Cut angle modules for wall washing with gold louvres





# Serpentine

## Flexible IP65 LED Linear lighting system

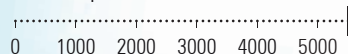
The Radiant Serpentine exterior LED linear system was the first system of its type to be hand bendable on site, and to offer adjustment in both the axial and vertical planes.

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

The individual LED lighting modules can rotate around the axis of the system and 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.

Up to 75 Watts per mtr.  
Up to 5,500 lumens per mtr depending on LED colour temperature.

Lumens per mtr



Goodman's Fields, London. Lighting design by EQ2 Light. Photo by Simon Winson - Berkeley Group



TFL project. Architect Burns and Nice. RIBA award winner



# Flaplight

## LED Linear display lighting system

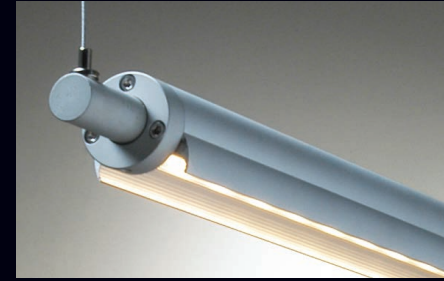
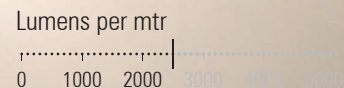
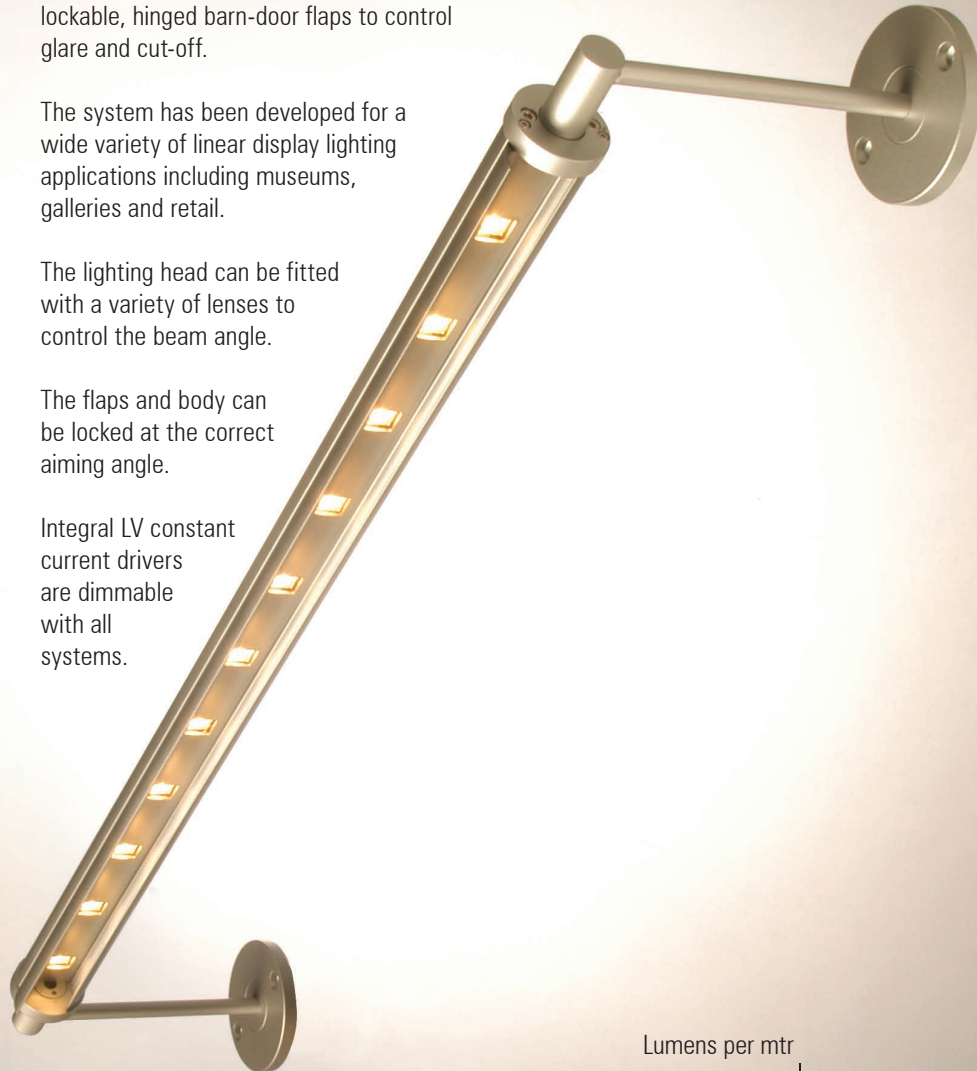
The Radiant LED Flaplight system incorporates lockable, hinged barn-door flaps to control glare and cut-off.

The system has been developed for a wide variety of linear display lighting applications including museums, galleries and retail.

The lighting head can be fitted with a variety of lenses to control the beam angle.

The flaps and body can be locked at the correct aiming angle.

Integral LV constant current drivers are dimmable with all systems.



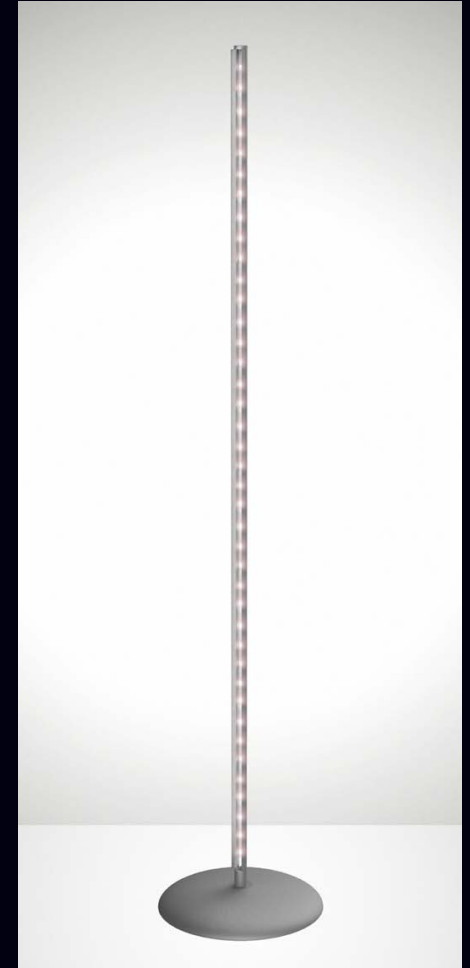
Pendant version



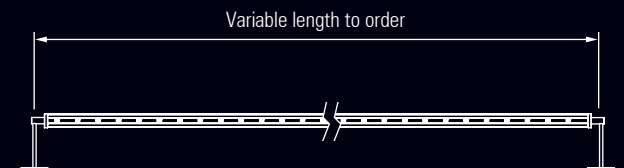
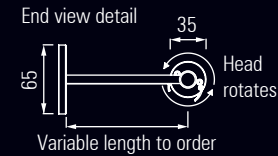
Flaplight with flaps closed



Flaplight with flaps open



Floor mount base version



## Flaplight micro and Flaplight Nano

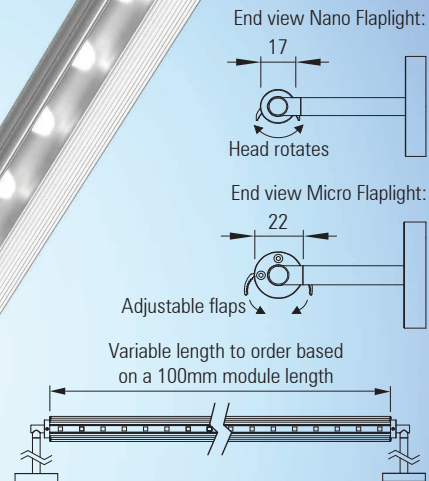
### LED Linear display lighting system

The Radiant Micro and Nano Flaplight systems extend the range with smaller sizes suitable for use in residential projects and within display cases.

The Micro incorporates the same lockable, hinged barn-doors as the standard size Flaplight.

The Nano has fixed flaps to give excellent glare control and visual comfort in the smallest overall size.

The smaller systems incorporate a linear lens for excellent beam control or for a softer diffuse lit effect.



Flaplight Nano: Lumens per mtr  
0 1000 2000 3000

Flaplight Micro: Lumens per mtr  
0 1000 2000 3000

## Flaplight IP65

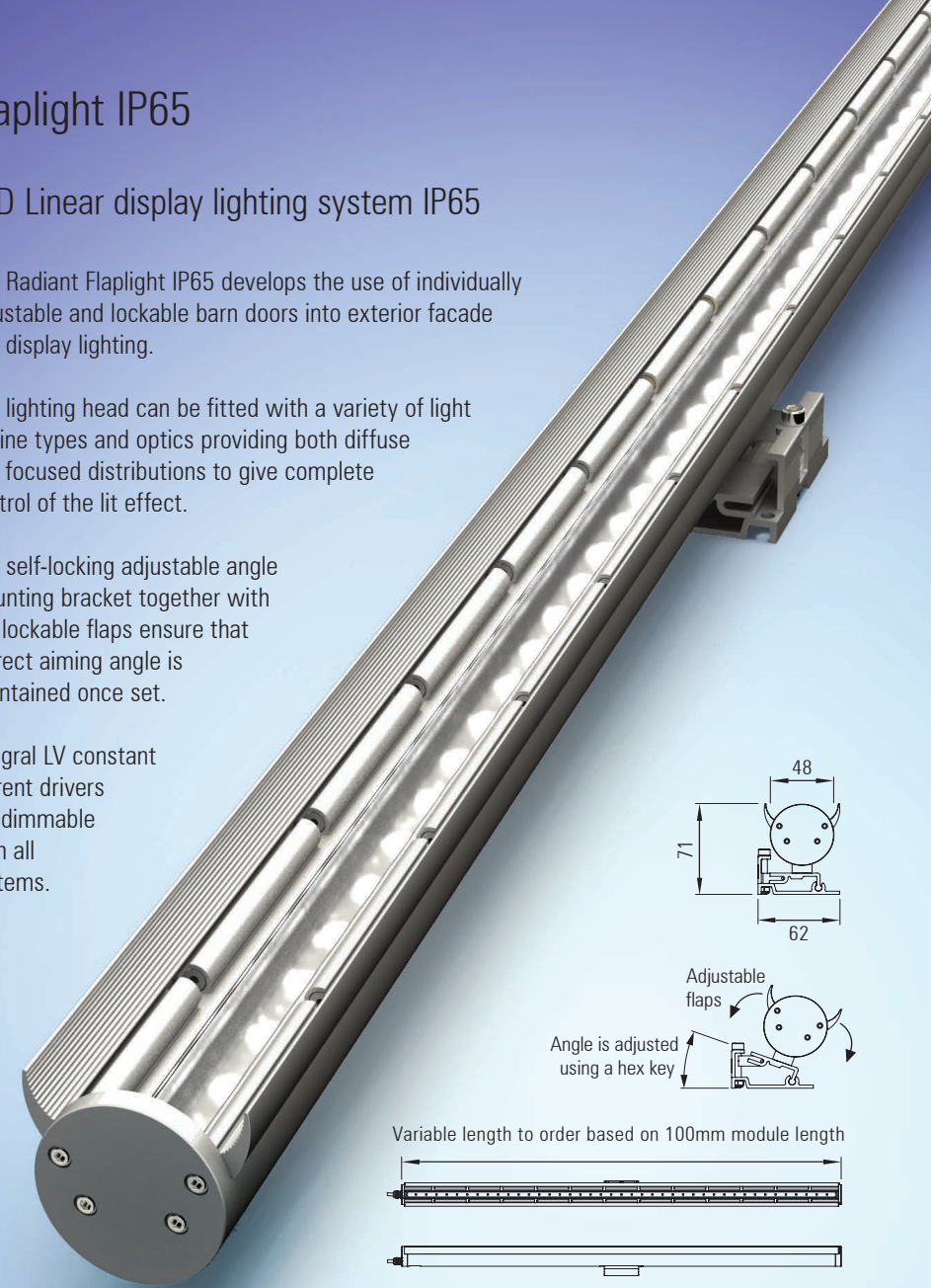
### LED Linear display lighting system IP65

The Radiant Flaplight IP65 develops the use of individually adjustable and lockable barn doors into exterior facade and display lighting.

The lighting head can be fitted with a variety of light engine types and optics providing both diffuse and focused distributions to give complete control of the lit effect.

The self-locking adjustable angle mounting bracket together with the lockable flaps ensure that correct aiming angle is maintained once set.

Integral LV constant current drivers are dimmable with all systems.



Lumens per mtr  
0 1000 2000 3000 4000 5000



# F Grazer

## LED linear lighting system

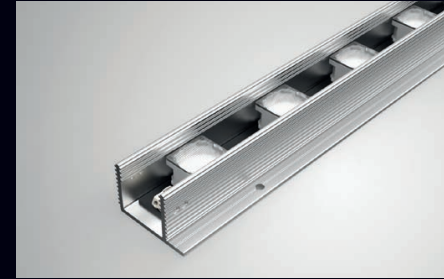
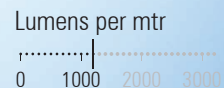
The F Grazer system has been developed for use in hospitality lighting projects, to produce surface grazing effects where a minimal and cost-effective solution is required.

In its simplest form the 330 mm light engine modules, complete with narrow elliptical lenses, are combined with the extruded body heat sink to provide an efficient concealed grazer luminaire. Direct fixing through the heat sink extrusion.

Glare control louvres, optical film diffusers, clear covers and end caps can be added to create a fully featured linear lighting system. A self locking adjustable angle version is also available.

On board constant current linear drivers ensure the tightly binned LEDs are run at the optimum drive current.

Up to 10 mtrs of the system can be run from a single remote LV power supply. Dimming by a separate pwm channel with interface to all standard dimming systems.



Standard grazer version



End cap detail



Anti-glare louvre detail

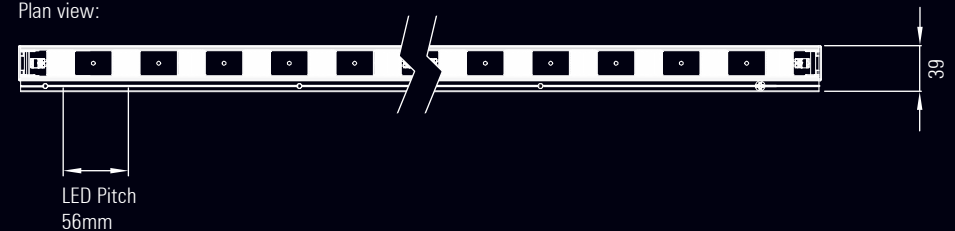


Adjustable angle mounting bracket

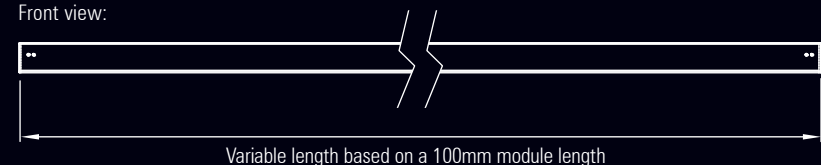
End view:



Plan view:



Front view:



## Shard undercabinet

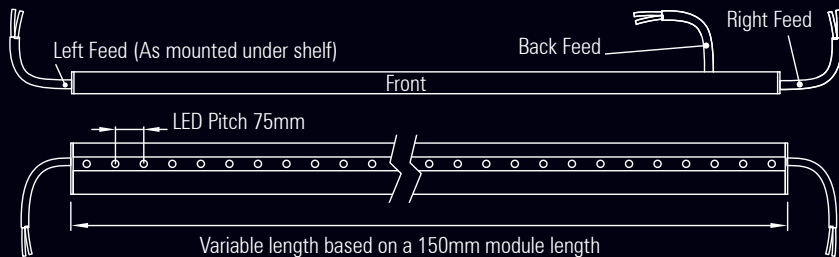
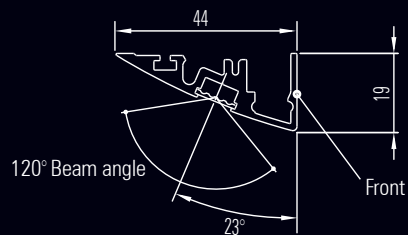
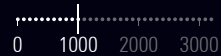
### LED Linear lighting system

The Shard linear lighting system was developed with George Sexton Associates for use in the apartments of the iconic Shard building in London.

The system incorporates medium power LED light engines, with on board linear drivers, in a wide variety of colour temperatures with CRI up to 95. Up to 1,000 lumens per mtr. Dot free opal or clear window versions are available.

The system can be supplied in any length up to 2.5 mtrs. Smallest cutting module based on 50 mm LED pitch. Longer continuous runs plug together on site.

Lumens per mtr



Shard 30 with 9 mm pitch x 0.15 W LEDs



Shard with 75 mm pitch 1.2 W LEDs



Constant LED pitch across modules

## Euclid 12

### LED linear lighting system

The Euclid 12 system was developed with George Sexton Associates as a custom design for a major residential lighting project.

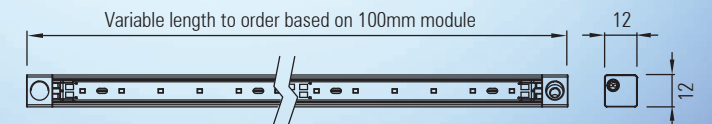
The smallest section linear system in the Radiant range the Euclid 12 can provide up to 700 lumens per mtr.

The system incorporates the same medium power LED light engines used in the Shard so that the two systems can be used together. On board linear drivers and LEDs in a wide variety of colour temperatures with CRI up to 95. Up to 700 lumens per mtr. Dot free opal or clear window versions are available.

The system can be supplied in any length up to 2.5 mtrs. Smallest cutting module based on 50 mm LED pitch.



Lumens per mtr



# Euclid 20

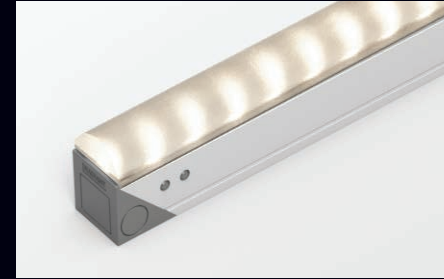
## LED linear lighting system

The Euclid 20 system was originally developed with DPA in Dubai for use on residential projects as a simple to install, cost effective linear lighting system. The 16 Amp plug together connector system, which fits inside the body extrusion, allows up to 11 mtrs to be lit from a single feed point without dark gaps between strips.

Designed for use in both indirect cove lighting applications and also, with the addition of a linear lens and optical films, for wall grazing and wall washing.

The system incorporates the same medium power LEDs used in the Shard and Euclid 12 so that all these systems can be used together. Up to 1,800 lumens per mtr. Clear window, Opal and Dot free opal and clear are available along with RGBW and dynamic white light versions.

The system can be supplied in any length up to 2.5 mtrs with the smallest cutting module based on 50 mm LED pitch.



Linear lens version - 40° beam angle



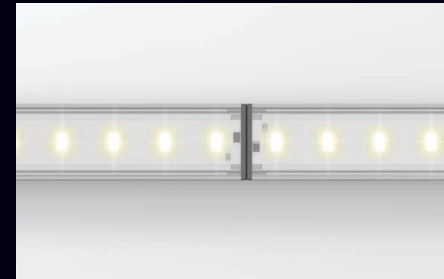
Diffuse opal cover



Plug together 16 Amp connector between strips



Connector fits inside modules for continuous lighting



Euclid 20 continuous LED pitch



Euclid 20 side feed



Spring clip mounting



Euclid 20 end feed



## Euclid 20 & Euclid 20 Balljoint

### LED linear lighting system

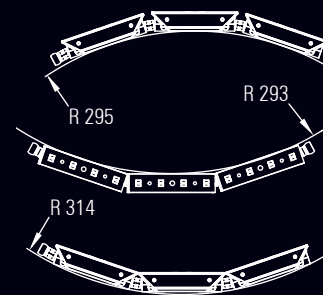
Euclid 20 - standard modules with spring clips:



Euclid 20 Balljoint:



Euclid 20 Balljoint.  
Standard minimum bend radii  
with 100mm modules:



## Euclid 20 Balljoint

### Modular, 3D flexible LED linear lighting system

The Euclid 20 Balljoint system combines the simplicity of the Euclid 20 with the total flexibility of the 3D LED Flex range.

The system incorporates the same medium power LEDs used in the Euclid 20 so that these systems can be used together on the same project. On board linear drivers and LEDs in a wide variety of colour temperatures with CRI up to 95. Up to 1,800 lumens per mtr. Opal, Dot free opal, clear window and linear lens versions are available.

Modules in any length based on a 100 mm module can be used to make up complete lengths of the system. RGBW and dynamic white light engines can also be incorporated in this system.

