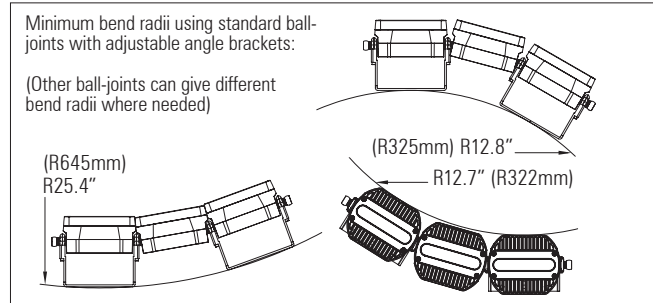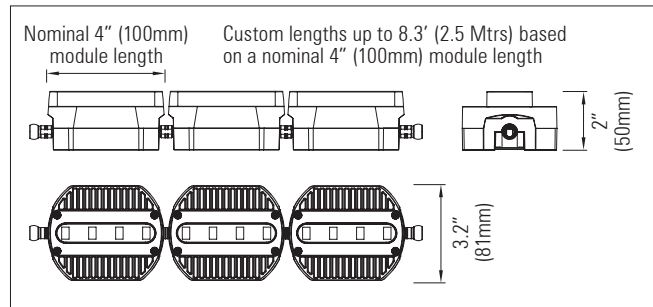# RADIANT
ARCHITECTURAL LIGHTING

3D LED Flex system 100 IP66 Class 2
1, 2, 3 or 4 x high power LEDs with lenses per module
Modular, 3D flexible LED linear lighting system

Nominal 4" (100mm) module length

Custom lengths up to 8.3' (2.5 Mtrs) based on a nominal 4" (100mm) module length

2" (50mm)

3.2" (81mm)

Minimum bend radii using standard ball-joints with adjustable angle brackets:

(Other ball-joints can give different bend radii where needed)

(R645mm) R25.4"

(R325mm) R12.8"

R12.7" (R322mm)

1, 2, 3 or 4 x high power LEDs with lenses per module

Modular, 3D flexible LED linear lighting system

Product description:

For use in exterior indirect cove lighting or direct wall washing applications where the building surfaces are non linear with curved profiles

Each module - 1, 2, 3 or 4 x Cree XP-E, XP-G LEDs with Ledil Lisa2, Larisa, or Tina2 lenses. See LED / lens matrix for beam angle options

Up to 10 Watts per 4" (100mm) module

30 Volt - 48 Volt DC supply depending on application

Flexible in 3 dimensions - Articulated ball-joint system between modules

LED pitch is maintained between the modules

Side, back and end power feed and connector options allow for continuous lighting with no dark areas between fixtures. 17.5 Amp IP68 connectors join fixtures together on-site

Integral LV constant current driver

Dimming options available: 1-10V, DMX and DALI. Separate dimming channel

Various LED colour temperature and CRI options available

Satin black, satin white or any RAL paint colour finish

Custom lengths based on a 4" (100 mm) module up to 8.3' (2.5 mtrs)

Various mounting options and bracket types are available

Low iron UV block glass covers or UV stable polycarbonate windows

* RGB, RGBW, RGBA and Dynamic-white options do not use a colour mixing lens. For a colour mixing lens version see the data sheet for the 3D LED Flex 100 IP66 with 1 x RGBW LED array with colour-blending lens per module

Up to 2,600 lumens per ft
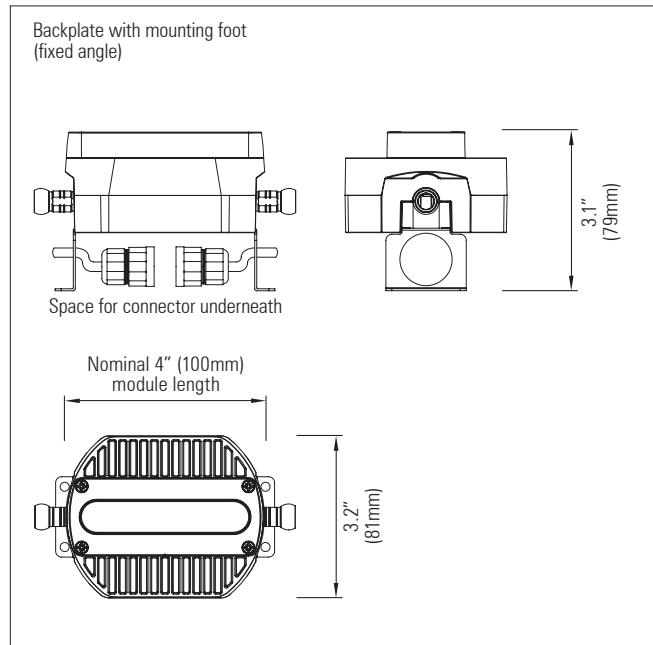
(Up to 8,700 Lumens per Mtr)

LED / lens matrix	CREE XP-E			CREE XP-G		
	Lisa2	Larisa	Tina2	Lisa2	Larisa	Tina2
Diffused spot (D)	N/A	N/A	12 °	N/A	N/A	17 °
Real spot (RS)	16 °	15 °	11 °	26 °	N/A	15 °
Medium (M)	24 °	23 °	31 °	34 °	36 °	30 °
Wide (W)	37 °	39 °	50 °	48 °	N/A	57 °
Wide (WW)	42 °	N/A	N/A	54 °	N/A	N/A
Wide (WWW)	84 °	N/A	N/A	86 °	N/A	N/A
Elliptical (O)	18+48 °	39+17 °	32+14 °	46+24°	39+25 °	35+16 °

Product Code	No. of LEDs	IP	Length	Colour Temp. (K)	CRI	Cover	Feed	Finish
RAD 3D LED FLEX 100 IP66 HP - 4 L	4 LEDs per 4" module: 1" (25mm) LED pitch	66	4" (100mm) -increments of 4" (100mm) up to- 8.3' (2.5 mtrs)	27=2,700k 30=3,000k 35=3,500k 40=4,000k 45=4,500k 50=5,000k * RGB * RGBW * RGBA * Dynamic white	80 90	Clear	End Back Side	Black White Any RAL colour
RAD 3D LED FLEX 100 IP66 HP - 3 L	3 LEDs per 4" module: 1.3" (33mm) LED pitch							
RAD 3D LED FLEX 100 IP66 HP - 2 L	2 LEDs per 4" module: 2" (50mm) LED pitch							
RAD 3D LED FLEX 100 IP66 HP - 1 L	1 LED per 4" module: 4" (100mm) LED pitch							

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3D LED Flex system 100 IP66 Class 2
1, 2, 3 or 4 x high power LEDs with lenses per module
Fixed-angle and adjustable-angle mounting bracketry

Backplate with mounting foot
(fixed angle)

Space for connector underneath

3.1" (79mm)

Nominal 4" (100mm) module length

3.2" (81mm)

Fixed-angle and adjustable-angle mounting bracketry for 3D LED Flex 100 IP66. 1, 2, 3 or 4 x high power LEDs with lenses per module

The 3D LED Flex 100 system is flexible in 3 dimensions, which allows it to follow curved building contours

There are a number of bracket options available

Adjustable angle brackets allow the modules to be rotated around the major axis, so that the light output can be aimed precisely

The angle of the modules can be adjusted on-site by hand. The friction ball-joint system keeps the modules correctly positioned. There is also a lockable option, which allows each module to be locked in place using an Allen key once it is correctly positioned
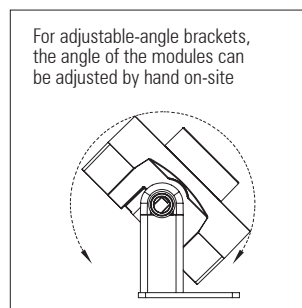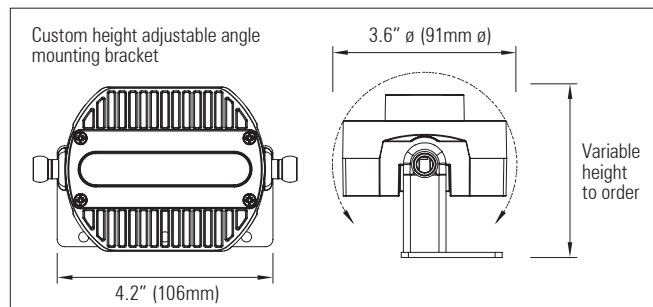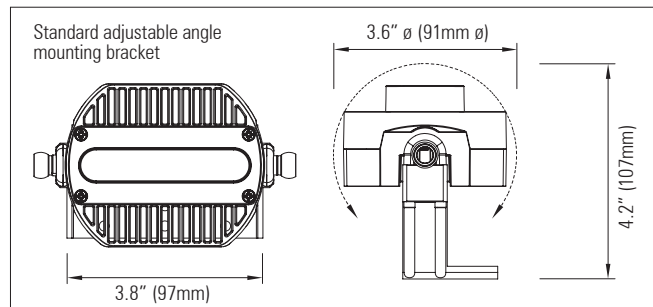
A standard height adjustable angle bracket and a custom height adjustable angle bracket are available

Fixed angle bracket options are also available. The standard fixed angle bracket has a mounting foot which has space for the connectors to fit underneath the modules
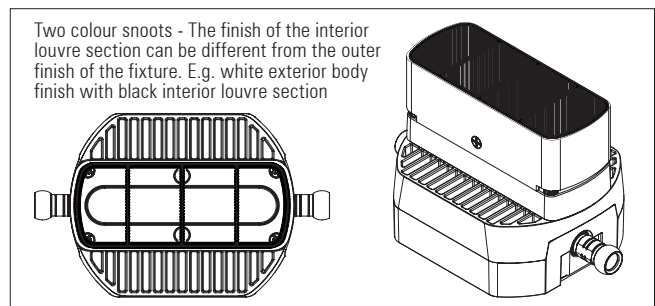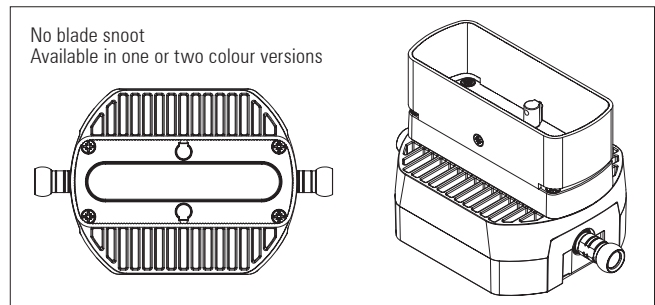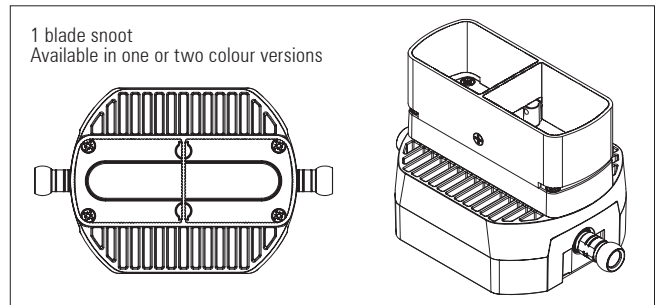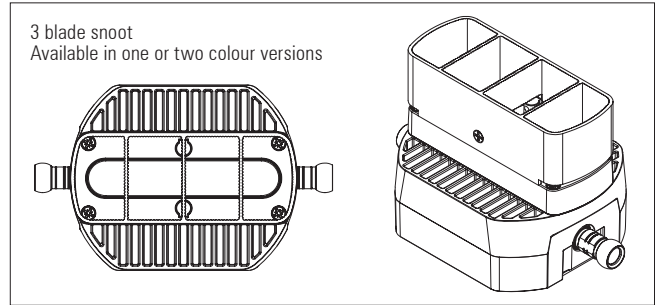
Custom options are also available

The brackets are aluminium with a powder coat finish which is available in satin black, satin white or any RAL colour

The custom height adjustable angle bracket is also available in stainless steel for more demanding exterior applications. Again, this is available with a powder coat finish in satin black, satin white or any RAL colour

Standard adjustable angle mounting bracket

3.6" ø (91mm ø)

4.2" (107mm)

3.8" (97mm)

Custom height adjustable angle mounting bracket

3.6" ø (91mm ø)

Variable height to order

4.2" (106mm)

Product code	IP	Finish	Height of legs
RAD 3D LED FLEX 100 IP66 FIXED ANGLE BRACKET WITH MOUNTING FOOT AL RAD 3D LED FLEX 100 IP66 ADJUSTABLE ANGLE BRACKET STANDARD AL RAD 3D LED FLEX 100 IP66 ADJUSTABLE ANGLE BRACKET CUSTOM HEIGHT	66	Aluminium: Black White Any RAL - colour Stainless steel: Black White Any RAL - colour	Custom height version only: 0.79" -increments of 0.2" up to- 11.8"

For adjustable-angle brackets, the angle of the modules can be adjusted by hand on-site

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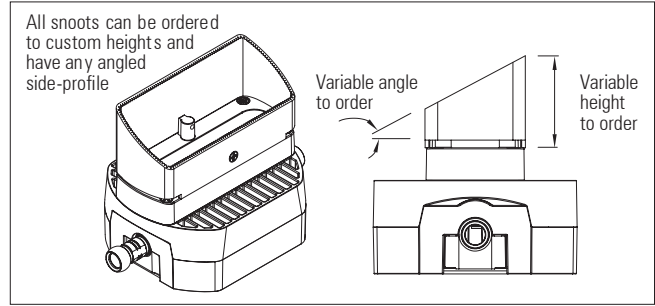
3D LED FLEX 100 anti-glare accessories

For use with the 3D LED Flex 100 system to control light glare from the LEDs when the fixtures are not fully recessed

3 blade, 1 blade and no blade snoots are available

Satin black, satin white or any RAL paint colour finish. Two colour versions are also available - eg. white finish on exterior & black finish on interior of snoot. Both interior and exteior parts can be any RAL colour paint finish, or any anodised finish

Custom height to order. Straight or any custom cut angle side-profile to order

Product Code	No. of blades	IP	Height	Cut angle of side-profile (°)	Finish
RAD 3D LED FLEX 100 SNOOT	0 1 3	66	0.8" (20mm) -increments of 0.2" (5mm) up to- 12" (305mm)	0° -increments of 5° up to- 75°	Black White Any RAL colour Two colour - both parts can be any anodised or any RAL colour

All snoots can be ordered to custom heights and have any angled side-profile

Variable angle to order

Variable height to order

3 blade snoot
Available in one or two colour versions

1 blade snoot
Available in one or two colour versions

No blade snoot
Available in one or two colour versions

Two colour snoots - The finish of the interior louvre section can be different from the outer finish of the fixture. E.g. white exterior body finish with black interior louvre section

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3D LED Flex 100 System Class 2
Ball-joint types

Product description:

Radiant's 3D LED Flex 100 system comprises a patented articulated ball-joint system which links the heatsink modules.

The ball-joints system allows the strips to bend and twist in 3 dimensions, so that they can follow any building contours, whilst maintaining a constant LED pitch.

There are various types of ball-joint to suit different applications, some of which can be seen on this data sheet. Please contact Radiant to discuss custom solutions.

Standard ball-joint

Minimum bend radius for 3D LED Flex 100 using standard ball-joints

Approximately R12.7" (R322mm) depending on IP rating, bracket type, LED type and optics
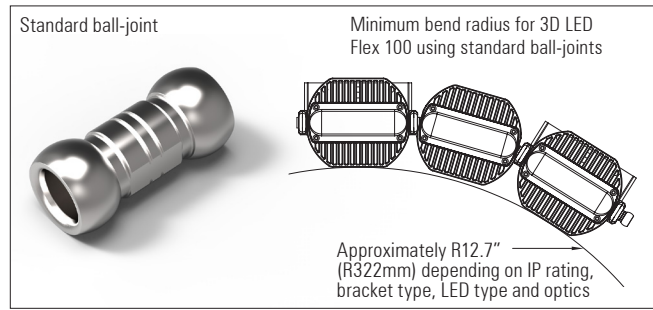
Product Code	Material	Length
STANDARD BALL-JOINT BALL-JOINT TIGHT BENDS BALL-JOINT LONG	Nickel-plated brass	(For longer ball-joints) 3.9" (100mm) 7.9" (200mm) 11.8" (300mm) Custom lengths

Ball-joint for tight bends

Minimum bend radius for 3D LED Flex 100 using ball-joints for tighter bends

Approximately R3.9" (R98mm) depending on IP rating, bracket type, LED type and optics

Longer ball-joint

Standard lengths:
3.9" (100mm)
7.9" (200mm)
11.8" (300mm)
(Custom lenths to order)

Minimum bend radius for 3D LED Flex 100 using 3.9" (100mm) long ball-joints

Approximately R22.8" (R578mm) depending on IP rating, bracket type, LED type and optics

7.9" (200mm)

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