RADIANT
ARCHITECTURAL LIGHTING

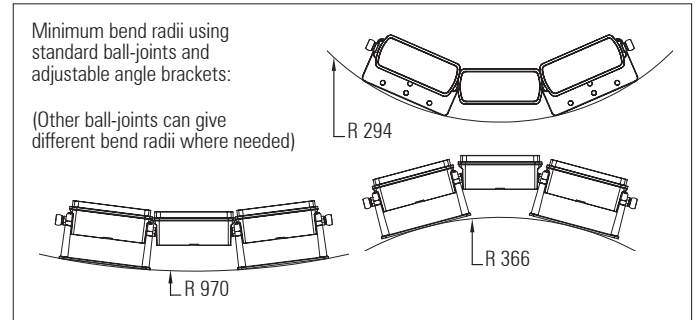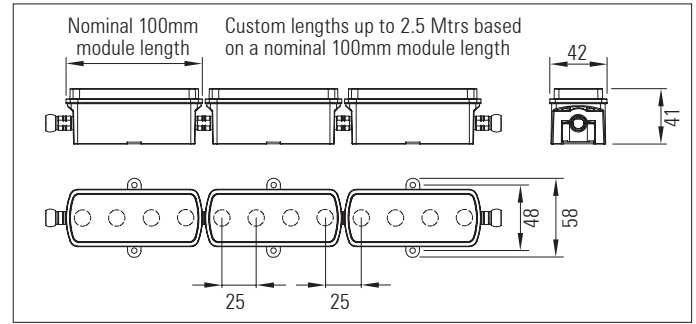# 3D LED Flex 40 IP20

2 or 4 x high power LEDs with lenses per module

Modular, 3D flexible LED linear lighting system

Nominal 100mm module length — Custom lengths up to 2.5 Mtrs based on a nominal 100mm module length

42 · 41 · 48 · 58 · 25 · 25

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

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

R 294

R 970

R 366

2 or 4 x high power LEDs with lenses per module

Modular, 3D flexible LED linear lighting system

Product description:

For use in interior indirect cove lighting applications 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 4.5 Watts per 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. 16 Amp IP20 connectors join fixtures together on-site

Integral LV constant current driver

Dimming options available: 1 - 10V, DMX and DALI

Various LED colour temperature and CRI options available

Satin black, satin white or any RAL paint colour finish

Custom lengths based on a 100 mm module up to 2.5 mtrs

Various mounting options and bracket types are available

* RGB, RGBW, RGBA and Dynamic-white options do not use a colour mixing lens. For a colour mixing lens version see data sheets for the 3D LED Flex 40 IP20 with 1 x RGBW LED array with colour-blending lens per module

Up to 5,000 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 per mtr.	IP	Length (mm)	LED Type	Optics (°)	Colour Temp. (K)	CRI	Cover	Feed	Finish
RAD 3D LED FLEX 40 IP20 HP - 4 L RAD 3D LED FLEX 40 IP20 HP - 2 L	40 LEDs per Mtr: 25mm pitch 20 LEDs per Mtr: 50mm pitch	20	100mm -increments of 100mm up to- 2,500mm	Cree: XP-E XP-G Osram: Oslon	Ledil: Tina2 N, M, W, E, Diffused spot (See LED / lens matrix for details)	22=2,200k 27=2,700k 30=3,000k 35=3,500k 40=4,000k 45=4,500k 50=5,000k * RGB * RGBW * RGBA * Dynamic white	70 80 90 97	Clear	End Back Side	Black White Any RAL-colour

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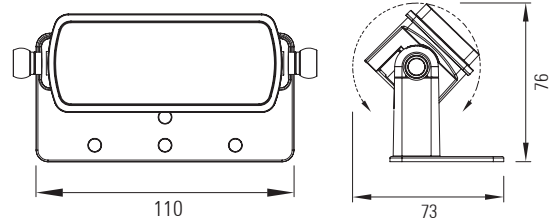
![RADIANT ARCHITECTURAL LIGHTING]

3D LED Flex 40 IP20
2 or 4 x high power LEDs with lenses per module
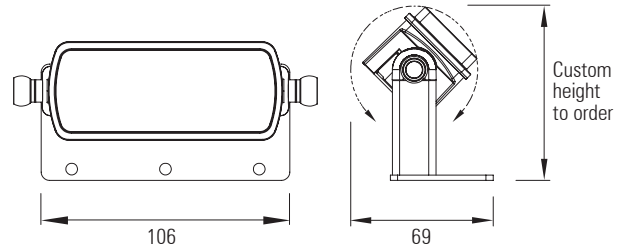Adjustable angle mounting bracketry

Standard IP20 adjustable angle mounting bracket
Polycarbonate. Black or white finish.

110   73   76

Custom height IP20 adjustable angle mounting bracket
Aluminium. Powder coat finish.

106   69   Custom height to order

Angle can be adjusted on-site by hand

Adjustable angle mounting bracketry for 3D LED Flex 40 IP20
2 or 4 x high power LEDs with lenses per module

The 3D LED Flex 40 system is flexible in 3 dimensions, which allows it to follow curved building contours. Once they have been fixed to the building surface, 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 by hand easily on-site. 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.
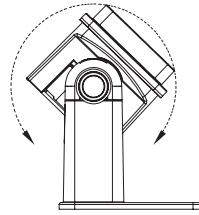
A standard height version and a custom height version are available.

Custom options are also available.

The standard height bracket is made from polycarbonate and is available in black or white.

The custom-height bracket is made from aluminium with a powder coat finish which is available in satin black, satin white or any RAL paint colour finish.
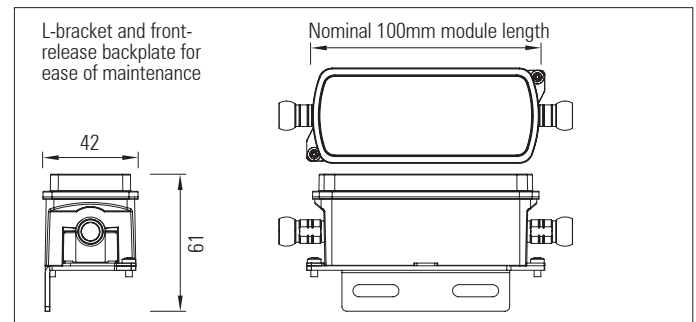
Product code	IP	Finish	Height of legs (mm)
RAD 3D LED FLEX 40 IP20 ADJUSTABLE ANGLE BRACKET STANDARD PC	20	Polycarbonate: Black White	Custom height version only:
RAD 3D LED FLEX 40 IP20 ADJUSTABLE ANGLE BRACKET CUSTOM HEIGHT AL		Aluminium: Black White Any RAL colour	20mm -increments of 5mm up to- 300mm

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3D LED Flex 40 IP20

2 or 4 x high power LEDs with lenses per module

Fixed angle mounting bracketry

Backplate with
direct fixing tabs

Nominal 100mm module length

58

41

Backplate with
mounting foot

Nominal 100mm module length

42

63

Space for
connector
underneath

Backplate with
side fixing holes

Nominal 100mm module length

54

43

Backplate with
in-line fixing tabs

Nominal 100mm module length

42

41
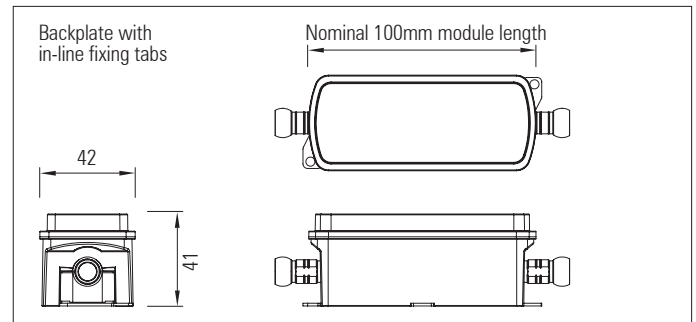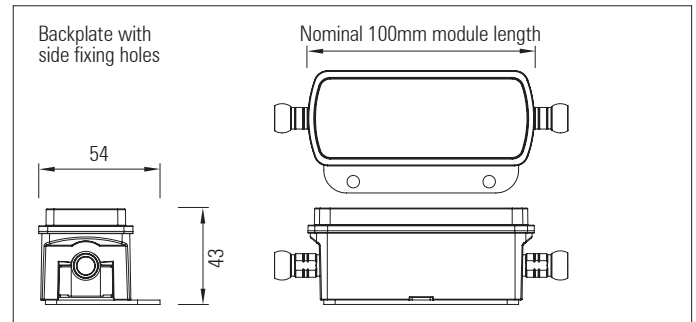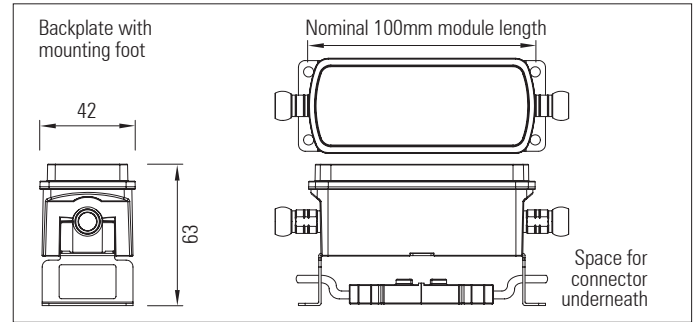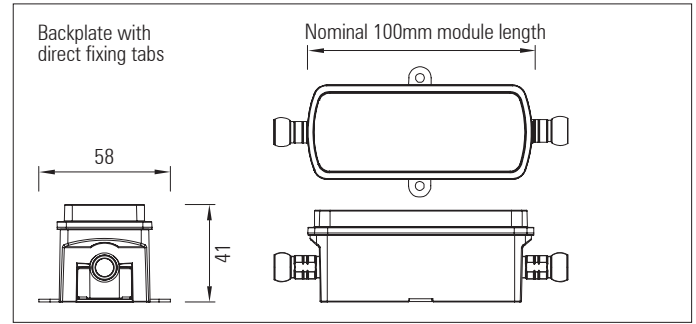
Product code	IP	Finish
RAD 3D LED FLEX 40 IP20 FIXED ANGLE BRACKET DIRECT FIXING TABS	20	Black White Any RAL colour
RAD 3D LED FLEX 40 IP20 FIXED ANGLE BRACKET WITH MOUNTING FOOT		
RAD 3D LED FLEX 40 IP20 FIXED ANGLE BRACKET SIDE FIXING		
RAD 3D LED FLEX 40 IP20 FIXED ANGLE BRACKET IN-LINE FIXING		
RAD 3D LED FLEX 40 IP20 FIXED ANGLE L-BRACKET FRONT RELEASE		
RAD 3D LED FLEX 40 IP20 FIXED ANGLE L-BRACKET		

L-bracket

Nominal 100mm module length

42

61

L-bracket and front-
release backplate for
ease of maintenance

Nominal 100mm module length

42

61

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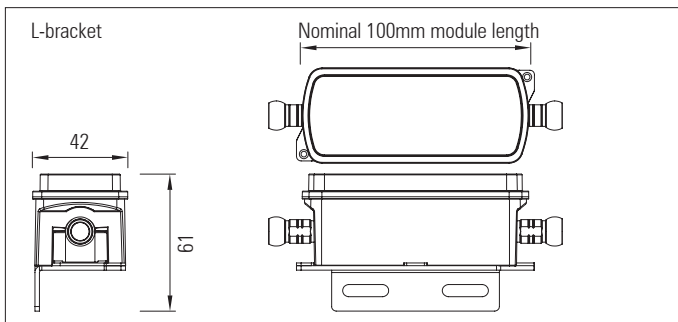
3D LED Flex 40 IP20
2 or 4 x high power LEDs with lenses per module
Anti-glare accessories

All snoots can be ordered to custom heights and can be given an angled side profile

Variable angle to order

Variable height to order

32

3 blade snoot
Available in one or two colour versions
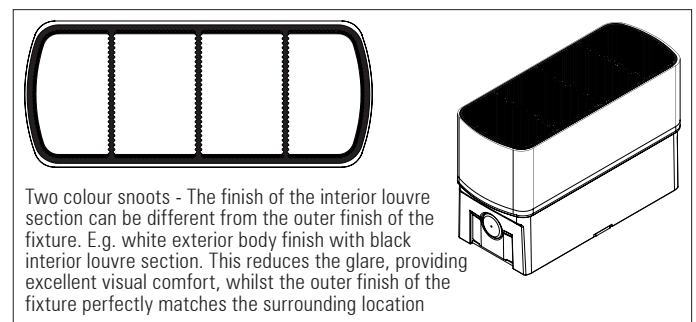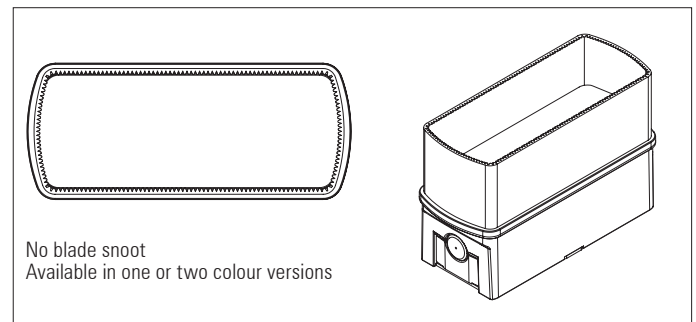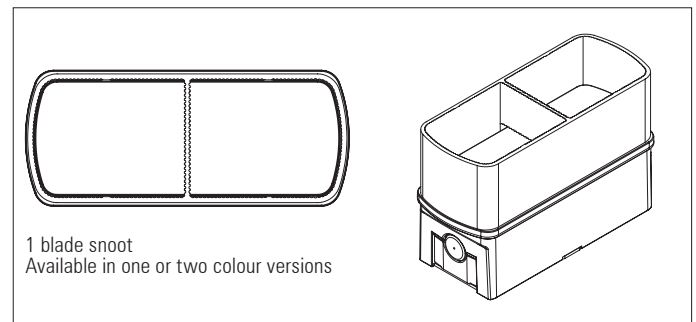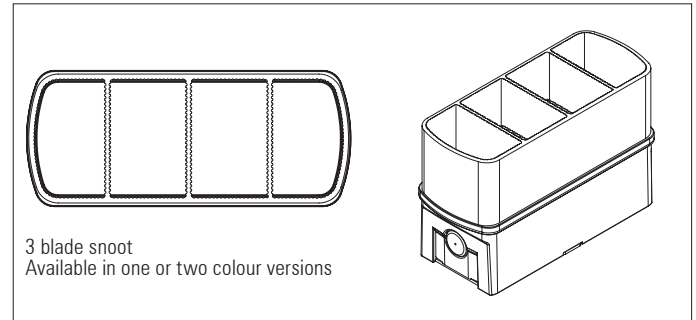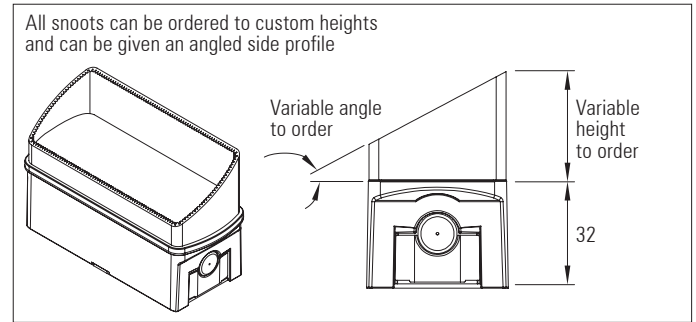
3D LED FLEX 40 anti-glare accessories

For use with the 3D LED Flex 40 system IP20 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

The honeycomb louvre accessory provides excellent glare control with a low profile

1 blade snoot
Available in one or two colour versions

Product Code	No. of blades	IP	Height (mm)	Cut angle of side-profile (°)	Finish
RAD 3D LED FLEX 40 SNOOT	0 1 3	20	20mm -increments of 5 mm up to-100mm	0° -increments of 5° up to-75°	Black White Any RAL colour Two colour - both parts can be any anodised or any RAL colour
RAD 3D LED FLEX 40 HONEY-COMB	NA	20	NA	NA	Black

No blade snoot
Available in one or two colour versions

Honeycomb louvre accessory

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. This reduces the glare, providing excellent visual comfort, whilst the outer finish of the fixture perfectly matches the surrounding location
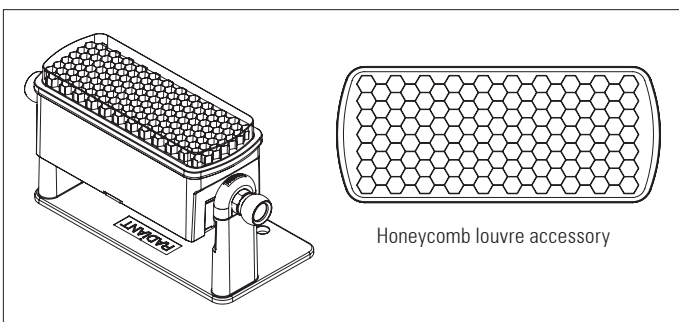
Product description:

Radiant's 3D LED Flex 40 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 40 using standard ball-joints

Approximately R156 depending on IP rating, bracket type, LED type and optics

Product Code	Material	Length (mm)
STANDARD BALL-JOINT BALL-JOINT STRAIGT BRACKET BALL-JOINT BRACKET TIGHT BENDS BALL-JOINT CURVED BRACKET BALL-JOINT TIGHT BENDS BALL-JOINT LONG BALL-JOINT IN LINE FIXING	Nickel-plated brass Stainless steel	(For longer ball-joint only) 100mm 200mm 300mm Custom lengths

Ball-joint with straight bracket

Minimum bend radius for 3D LED Flex 40 using ball-joints with straight bracket

Approximately R80 depending on IP rating, bracket type, LED type and optics

Ball-joint with bracket for tight bends

Minimum bend radius for 3D LED Flex 40 using ball-joints with bracket for tight bends

Approximately R61 depending on IP rating, LED type and optics

Ball-joint with curved bracket

Minimum bend radius for 3D LED Flex 40 using ball-joints with curved bracket

Approximately R112 depending on IP rating, bracket type, LED type and optics

Ball-joint for tight bends

Minimum bend radius for 3D LED Flex 40 using ball-joints for tighter bends

Approximately R105 depending on IP rating, bracket type, LED type and optics

Ball-joint with in-line fixing bosses

Minimum bend radius for 3D LED Flex 40 using ball-joints with inline fixing bosses

Approximately R163 depending on IP rating, bracket type, LED type and optics

Longer ball-joint

Standard lengths:
100mm
200mm
300mm
(Custom lengths to order)

Minimum bend radius for 3D LED Flex 40 IP20 with 100mm long ball-joints

Approximately R600 depending on IP rating, bracket type, LED type and optics

200

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