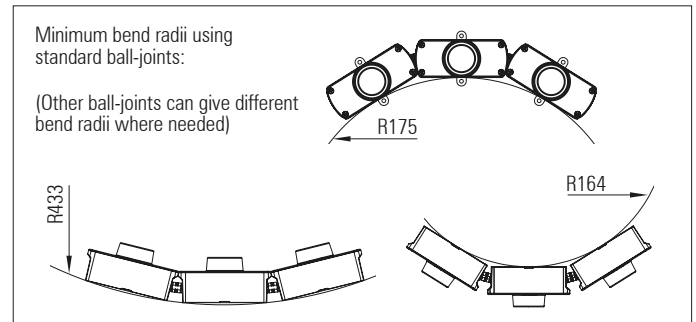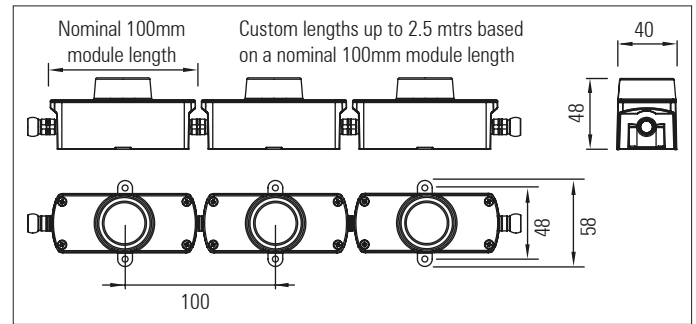# RADIANT
ARCHITECTURAL LIGHTING

3D LED Flex 40 RGBW IP20
1 x RGBW LED array with 32mm ø colour-mixing lens 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

40 / 48 / 58 / 48 / 100

Minimum bend radii using standard ball-joints:

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

R175 / R433 / R164

1 x RGBW LED array with 32mm ø Gaggione colour-mixing lens per module

Modular, 3D flexible LED linear lighting system

Product description:

For use in interior lighting applications where the building surfaces are non linear with curved profiles

Each module - 4x Luxeon Z or CZ LEDs, with a highly efficient colour-blending Gaggione lens

Up to 4.5 Watts per 100mm module. Up to 48 V DC supply

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 or remote Eldoled 4 Channel DMX driver

Remote DMX / DALI controller can be located up to 50 mtrs from the LED system

Satin black, satin white or any RAL paint colour finish

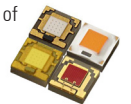Custom lengths based on a 100 mm module up to 2.5 mtrs

Various mounting options and bracket types are available including custom solutions

Anti-glare snoot:

Variable angle to order — Variable height to order
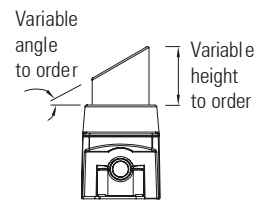
Up to 1,627 Lumens per Mtr

Custom combinations of different colour temp. white-light LEDs and different colour-light LEDs can be specified

LED / lens matrix	LUXEON CZ CLUSTER x4 RGBW LEDs	LUXEON Z CLUSTER x4 RGBW LEDs
LLC25C Colour	FWHM 1: 21.5°	FWHM 1: 16.8°
LLC25E Elliptical	N.A.	FWHM 1: 12.9° / FWHM 2: 33.2°
LLC25G Narrow/Medium	FWHM 1: 22.9°	FWHM 1: 16.3°
LLC25N Narrow	FWHM 1: 22.3°	FWHM 1: 12.9°
LLC25W Wide	N.A.	FWHM 1: 32.3°
LLC25V Very Wide	FWHM 1: 50.7°	FWHM 1: 55.0°

Product Code	No. of LEDs per mtr.	IP	Length (mm)	LED Type	LED Colour / Colour Temp.(K)		CRI	Anti-glare Snoot	Feed	Finish
RAD 3D LED FLEX 40 IP20 RGBW - 4 L 32MM	40 LEDs per Mtr: (100mm spacing between LED arrays)	20	100mm -increments of 100mm up to- 2,500mm	LUMILED Luxeon clusters: 4x RGBW CZ LEDs 4x RGBW Z LEDs	Specify all 4x LEDs in cluster: Far Red, Red, Deep Red, Red-Orange, Amber, PC Amber, Mint, Lime, Green, Cyan, Blue, Royal Blue, Violet	22=2,200k 27=2,700k 30=3,000k 35=3,500k 40=4,000k 50=5,000k 57=5,700k 65=6,500k	80 90	Cut-angle: 0° - 75° (increments of 5°) Height: specify height	End Back Side	Black White Any RAL-colour

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REV 3

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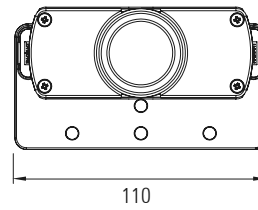DAVID MORGAN ASSOCIATES

3D LED Flex 40 RGBW IP20

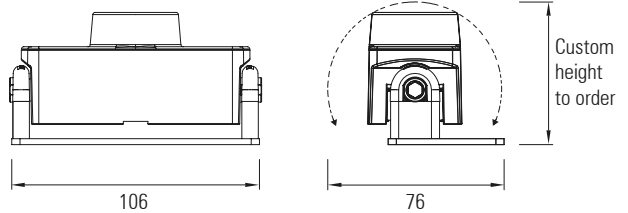1 x RGBW LED array with 32mm ø colour-mixing lens per module

Adjustable angle mounting bracketry

Standard IP20 adjustable angle mounting bracket. Polycarbonate. Black or white finish.
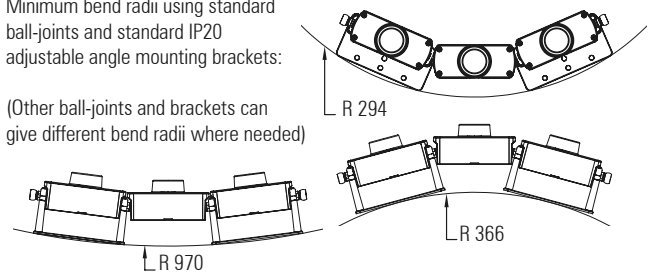
110   80   83

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

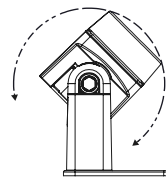106   76   Custom height to order

Minimum bend radii using standard ball-joints and standard IP20 adjustable angle mounting brackets:

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

R 294

R 970

R 366

The angle of the modules can be adjusted by hand on-site

Adjustable angle mounting bracketry for 3D LED Flex 40 IP20
1 x RGBW LED array with 32mm diameter lens 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 RAD 3D LED FLEX 40 IP20 ADJUSTABLE ANGLE BRACKET CUSTOM HEIGHT AL	20	Polycarbonate: Black White Aluminium: Black White Any RAL colour	Custom height version only: 20mm -increments of 5mm up to- 300mm

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3D LED Flex 40 RGBW IP20

1 x RGBW LED array with 32mm ø colour-mixing lens per module

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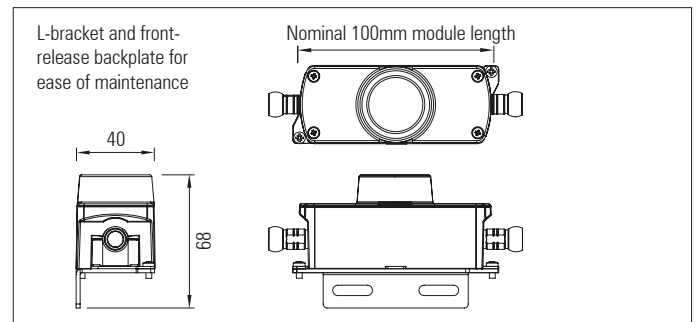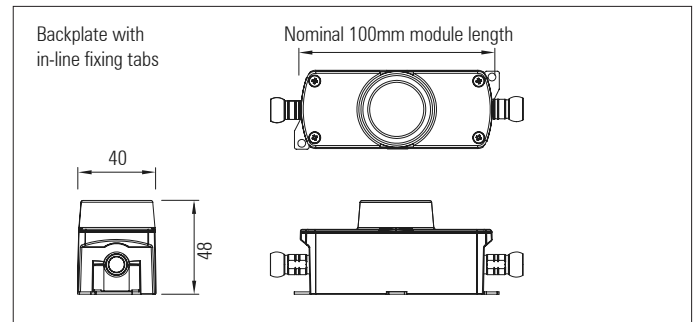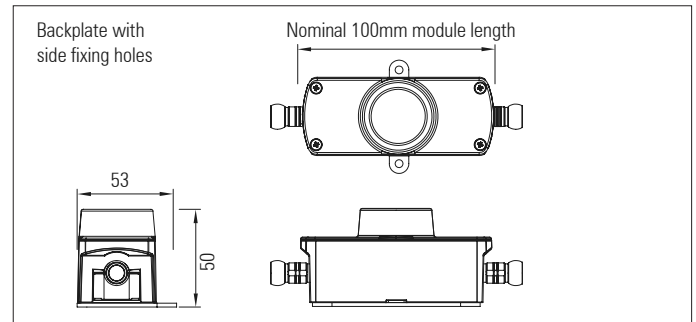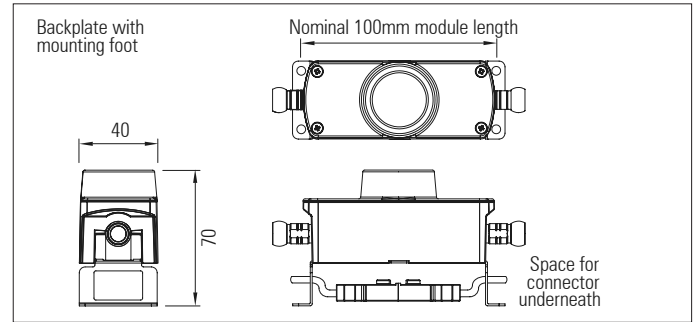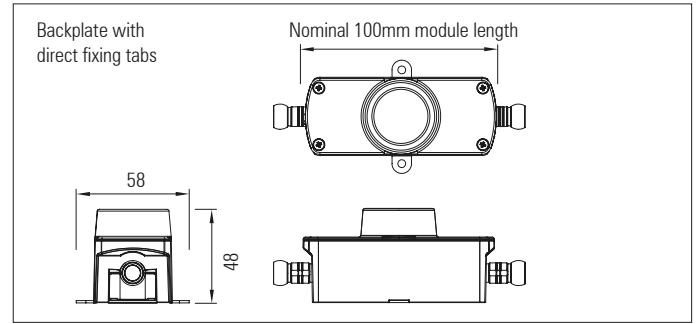
Product code	IP	Finish
RAD 3D LED FLEX 40 IP20 FIXED ANGLE BRACKET DIRECT FIXING TABS	20	Black White Any RAL colour
RAD 3D LED FLEX 40 IP20 FIXED ANGLE BRACKET WITH MOUNTING FOOT		
RAD 3D LED FLEX 40 IP20 FIXED ANGLE BRACKET SIDE FIXING		
RAD 3D LED FLEX 40 IP20 FIXED ANGLE BRACKET IN-LINE FIXING		
RAD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

Backplate with direct fixing tabs

Nominal 100mm module length

58

48

Backplate with mounting foot

Nominal 100mm module length

40

70

Space for connector underneath

Backplate with side fixing holes

Nominal 100mm module length

53

50

Backplate with in-line fixing tabs

Nominal 100mm module length

40

48

L-bracket

Nominal 100mm module length

40

68

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

Nominal 100mm module length

40

68

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ARCHITECTURAL LIGHTING

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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