RADIANT
ARCHITECTURAL LIGHTING

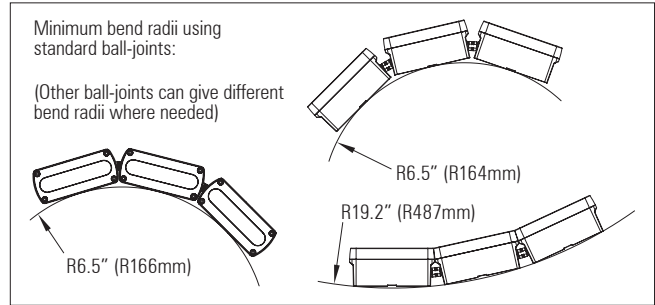# 3D LED Flex 40 RGBW IP66 Class 2
1 x RGBW LED array with asymmetric white reflector per module
Modular, 3D flexible LED linear lighting system

Nominal 4" (100mm) module length   Custom lengths up to 8.3' (2.5 Mtrs) based on a nominal 4" (100mm) module length   (40mm) 1.6"

1.7" 44mm

2.3" 58mm

Minimum bend radii using standard ball-joints:

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

R6.5" (R164mm)

R19.2" (R487mm)

R6.5" (R166mm)

1 x RGBW LED array with asymmetric white reflector per module

Modular, 3D flexible LED linear lighting system

Product description:

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

Each module - 4 x Luxeon CZ LEDs - custom combinations of white and colour LEDs

High efficiency asymmetric white reflector

Up to 5 Watts per 4" (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. 17.5 Amp IP68 connectors join fixtures together on-site

Integral LV constant current driver or remote Eldoled 4 Channel DMX driver
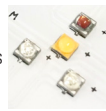
Remote DMX / DALI controller can be located up to 164" (50 mtrs) from the LED system

Satin black, satin white or any RAL paint colour finish

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

Various mounting options and bracket types are available

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

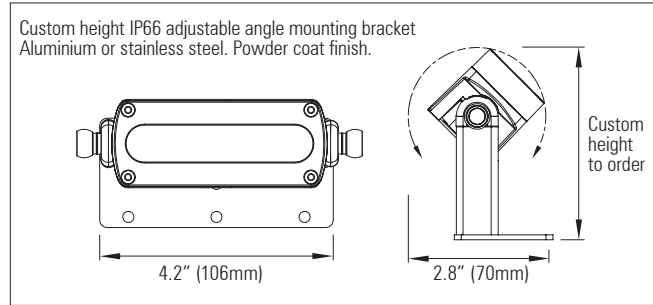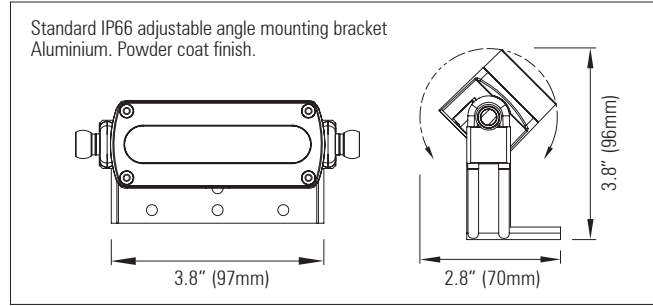RGBW: Up to 606 Lumens per ft (Up to 2,000 Lumens per Mtr)

White: Up to 1,360 Lumens per ft (Up to 4,500 Lumens per Mtr)

Product Code	No. of LEDs	IP	Length	LED Type	Optics (°)	LED Colour / Colour Temp.(K)		CRI	Cover	Feed	Finish
RAD 3D LED FLEX 40 IP66 RGBW - 4	1 x array of 4 x RGBW LEDs per 4" (100mm) module: 4" (100mm) pitch between arrays	66	4" (100mm) -increments of 4" (100mm) up to- 8.3' (2.5 mtrs)	LUMILED Luxeon clusters: 4x RGBW CZ LEDs 4x RGBW Z LEDs	110°	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 45=4,500k 50=5,000k 57=5,700k 65=6,500k	80 90	Clear Frosted Opal	End Back Side	Black White Any RAL-colour

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3D LED Flex 40 RGBW IP66 Class 2

1 x RGBW LED array with asymmetric white reflector per module

Adjustable angle mounting bracketry
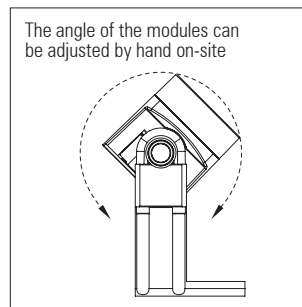
Standard IP66 adjustable angle mounting bracket
Aluminium. Powder coat finish.

3.8" (97mm)　　2.8" (70mm)　　3.8" (96mm)

Custom height IP66 adjustable angle mounting bracket
Aluminium or stainless steel. Powder coat finish.

4.2" (106mm)　　2.8" (70mm)　　Custom height to order

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

Adjustable angle mounting bracketry for 3D LED Flex 40 IP66

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 aluminium and the custom-height bracket can be made from either aluminium or stainless steel for more demanding exterior applications.

Both options have a powder coat finish which is available in satin black, satin white or any RAL paint colour finish.
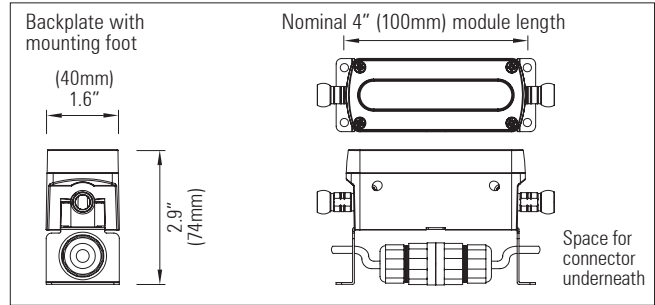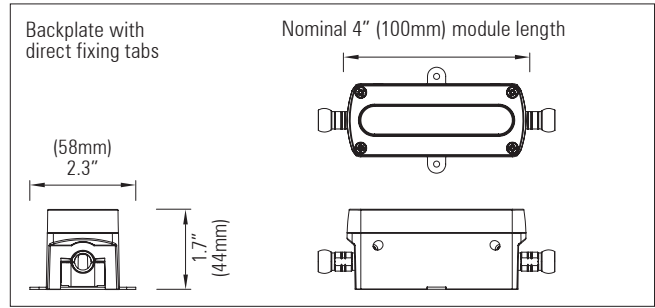
Product code	IP	Finish	Height of legs
RAD 3D LED FLEX 40 IP66 ADJUSTABLE ANGLE BRACKET STANDARD AL	66	Aluminium: Black White Any RAL colour	Custom height version only: 0.8" (20mm)
RAD 3D LED FLEX 40 IP66 ADJUSTABLE ANGLE BRACKET CUSTOM HEIGHT SS		Stainless Steel: Black White Any RAL colour	-increments of 0.2" (5mm) up to- 12" (305mm)

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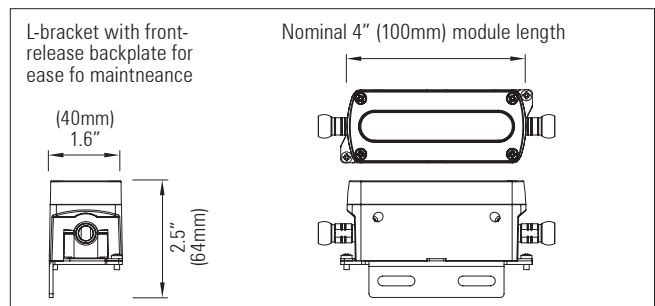DAVID MORGAN ASSOCIATES

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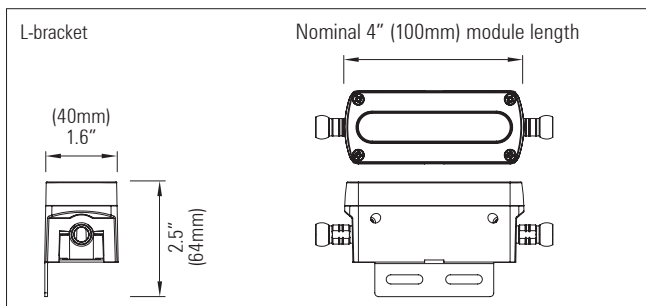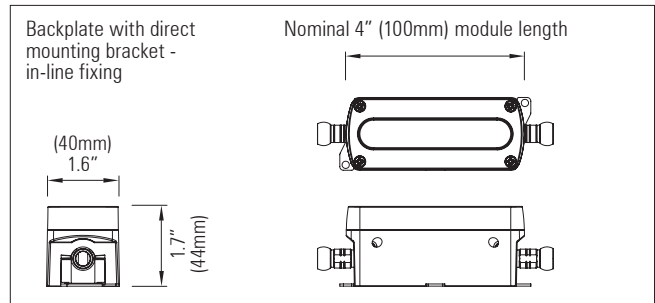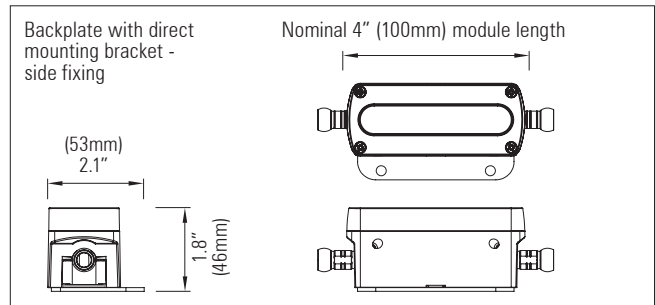## ARCHITECTURAL LIGHTING

3D LED Flex 40 RGBW IP66 Class 2
1 x RGBW LED array with asymmetric white reflector per module
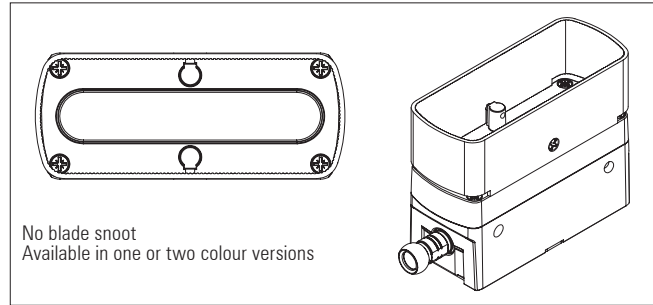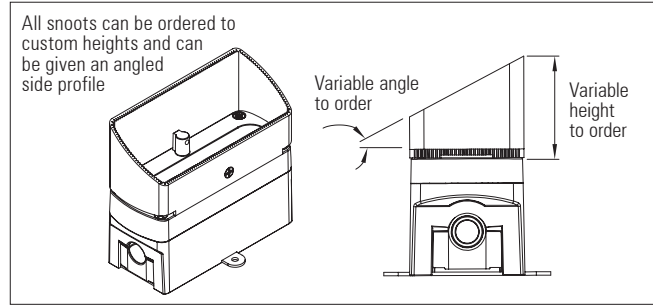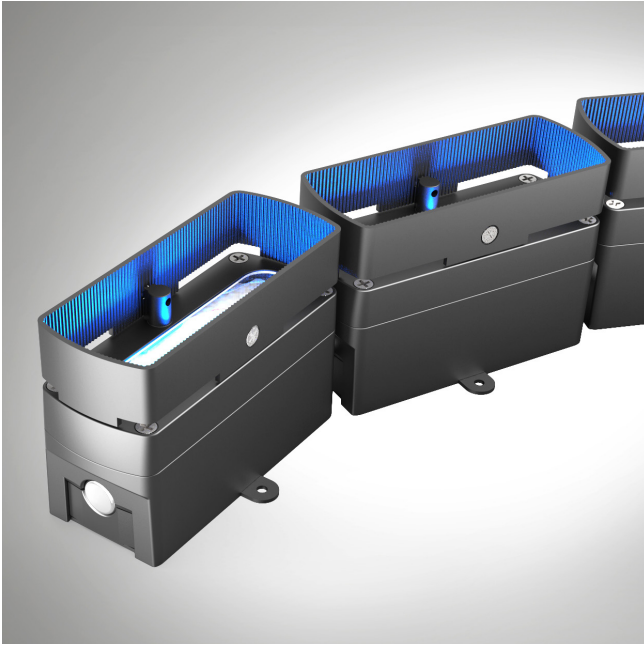Fixed angle mounting bracketry

Backplate with direct fixing tabs

Nominal 4" (100mm) module length

(58mm) 2.3"

1.7" (44mm)

Product code	IP	Finish
RAD 3D LED FLEX 40 IP66 FIXED ANGLE BRACKET DIRECT FIXING TABS	66	Black White Any RAL colour
RAD 3D LED FLEX 40 IP66 FIXED ANGLE BRACKET WITH MOUNTING FOOT		
RAD 3D LED FLEX 40 IP66 FIXED ANGLE BRACKET SIDE FIXING		
RAD 3D LED FLEX 40 IP66 FIXED ANGLE BRACKET IN-LINE FIXING		
RAD 3D LED FLEX 40 IP66 FIXED ANGLE L-BRACKET FRONT RELEASE		
RAD 3D LED FLEX 40 IP66 FIXED ANGLE L-BRACKET		

Backplate with mounting foot

Nominal 4" (100mm) module length

(40mm) 1.6"

2.9" (74mm)

Space for connector underneath

Backplate with direct mounting bracket - side fixing

Nominal 4" (100mm) module length

(53mm) 2.1"

1.8" (46mm)

Backplate with direct mounting bracket - in-line fixing

Nominal 4" (100mm) module length

(40mm) 1.6"

1.7" (44mm)

L-bracket

Nominal 4" (100mm) module length

(40mm) 1.6"

2.5" (64mm)

L-bracket with front-release backplate for ease fo maintneance

Nominal 4" (100mm) module length

(40mm) 1.6"

2.5" (64mm)

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3D LED Flex 40 RGBW IP66 Class 2
1 x RGBW LED array with asymmetric white reflector 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

No 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 IP66 to control light glare from the LEDs when the fixtures are not fully recessed

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 40 SNOOT	0	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

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Product description:

Radiant's 3D LED Flex 40 system comprises a patented articulated ball-joint system which links the heatsink modules.
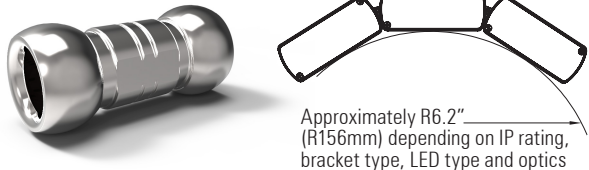
The ball-joints system allows the strips to bend and twist in 3 dimensions, so that they can follow any building contours, whilst maintaining a constant LED pitch.

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.
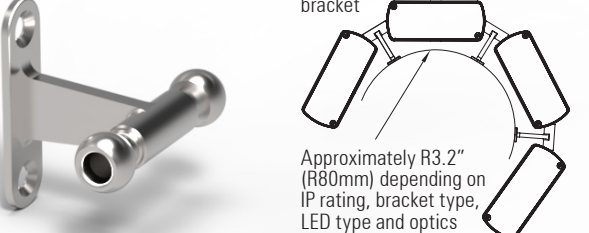
Standard ball-joint

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

Approximately R6.2" (R156mm) depending on IP rating, bracket type, LED type and optics

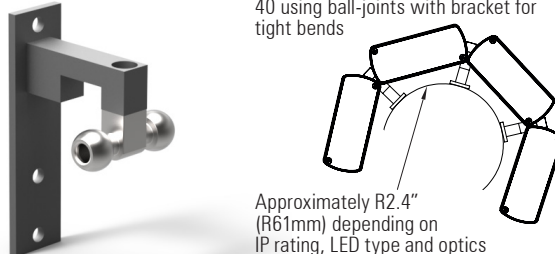| Product Code	Material	Length
STANDARD BALL-JOINT BALL-JOINT STRAIGT BRACKET BALL-JOINT BRACKET TIGHT BEND BALL-JOINT CURVED BRACKET BALL-JOINT TIGHT BENDS BALL-JOINT LONG	Nickel-plated brass	For longer ball-joint only: 3.9" (100mm) 7.9" (200mm) 11.8" (300mm) Custom lengths
BALL-JOINT IN LINE FIXING	Stainless steel	

Ball-joint with straight bracket

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

Approximately R3.2" (R80mm) depending on IP rating, bracket type, LED type and optics
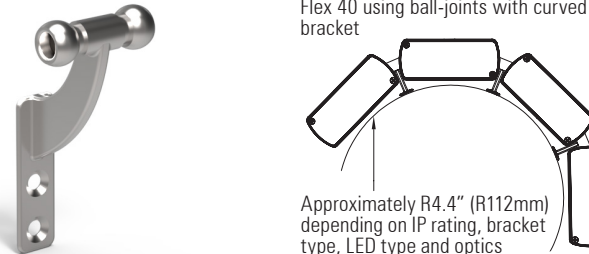
Ball-joint with bracket for tight bends

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

Approximately R2.4" (R61mm) depending on IP rating, LED type and optics
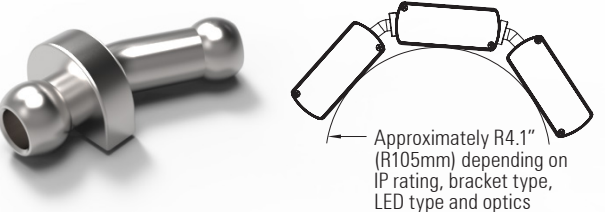
Ball-joint with curved bracket

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

Approximately R4.4" (R112mm) depending on IP rating, bracket type, LED type and optics
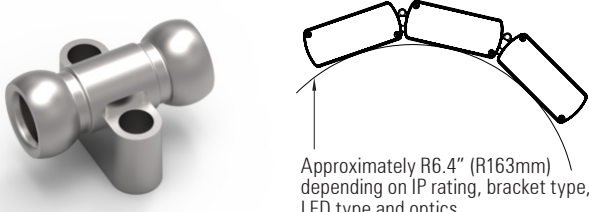
Ball-joint for tight bends

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

Approximately R4.1" (R105mm) depending on IP rating, bracket type, LED type and optics
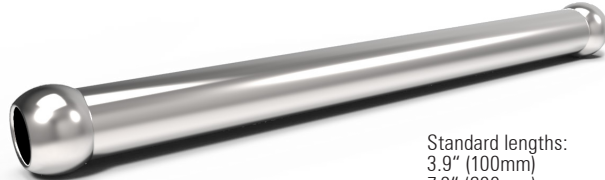
Ball-joint with in-line fixing bosses

Minimum bend radius for 3D LED Flex 40 using ball-joints with inline fixing bosses
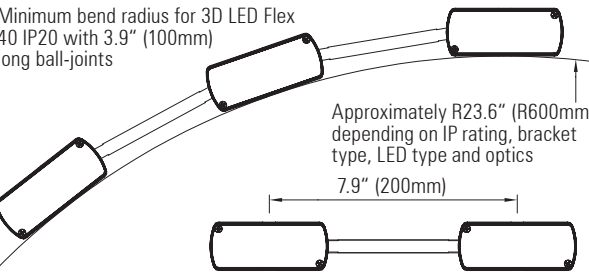
Approximately R6.4" (R163mm) depending on IP rating, bracket type, LED type and optics

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 40 IP20 with 3.9" (100mm) long ball-joints

Approximately R23.6" (R600mm) depending on IP rating, bracket type, LED type and optics

7.9" (200mm)

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