LF20D

EXTERIOR/INTERIOR LINEAR FLEXIBLE

24V · IP67 · PART L Display · 5 YEAR Warranty

CB

Colour-Matched. Precision-Cut. Quality-Assured. Built to Blend. Install-Ready.

Trusted by designers for precision, consistency, and total system integration. Our updated and extended Linear range brings that same expertise to flexible and rigid luminaires, giving you the freedom to create clean, continuous lines of light, perfectly matched in colour, quality, and performance across every application.

The LF20D provides versatile dual-bend performance with both top and side flexibility, offering the same colour-matched precision that defines the LightGraphix range. Built for demanding architectural environments, it delivers exceptional uniformity, reliability, and visual control.

Engineered, cut, and tested in-house, it provides up to 5m of continuous light, precision-cut to 1mm accuracy and sealed to IP67 for robust performance in interior, exterior, or marine environments.
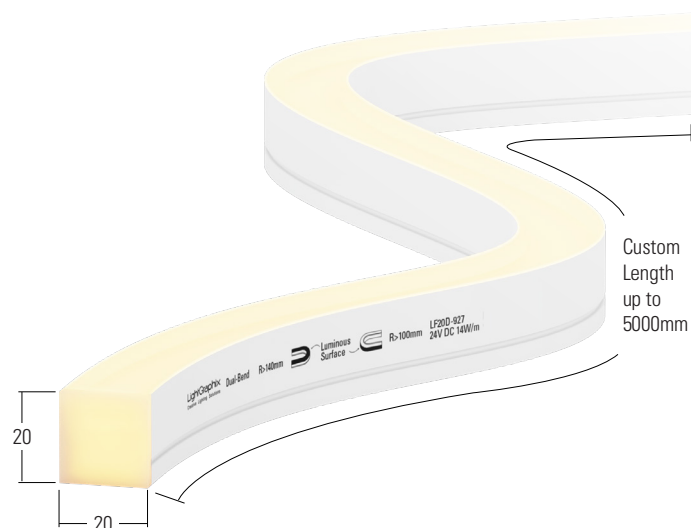
KEY FEATURES

> Colour-matched to the full LightGraphix range for uniform illumination across all luminaire types

> Dual bend flexibility (top 100mm / side 140mm radius)

> Colour-matched LEDs within 2-step MacAdam ellipse

> Flame, Salt, Solvent & UV resistant

> Continuous lengths up to 5m; 1mm cut accuracy

> RGBW and Static White options

> Matching rigid profile: LR20

> Range of mounting profiles and cable exit options

> Dimming: 0–10 V, DALI, Casambi, DMX, Mains

> Cut, finished, and tested in the UK

DIMENSIONS

Dimensions in mm

For full dimensions please go to page 3.

Custom Length up to 5000mm

20

20

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WHITE LED ENGINE SPECIFICATION

Engine	Single White	RGBW
Beam angles	120°	120°
Colour temperature*	2200K, 2400K, 2700K, 3000K, 4000K, 5000K	RGBW 2700K
Typical LED Circuit Wattage/m	14W	14W
Delivered lumens (L_{100})*	824	493
Delivered lm/Circuit W**	59	35
Source LED lm/m	1,555	960
Source lm/W	111	111
Forward voltage (V_{100})	24V	24V
CRI	90	90
Colour consistency	2 SDCM	2 SDCM
LOR	0.53	0.51
TM30	RF90 | RG99	-
LED lifetime (25° ambient)	L80B50 at 50,000hrs	L80B50 at 50,000hrs
Applications		

These values are based around a LD20D-930 1000mm and LD20D-RGBW-927 1000mm
*See lumen variance table to the right for lumens apply across all colour temperatures
**LED wattage includes losses associated with using a 90% efficient driver

Lumen variance by CCT	
2200K	-17%
2400K	-14%
2700K	-2%
3000K	0%
4000K	4%
5000K	6%

MECHANICAL

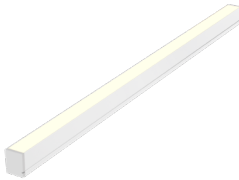|		Single White	RGBW
Ambient temperature		-20°C to 45°C*	-20°C to 45°C*
Minimum Bend Radius	Top	100mm	100mm
	Side	140mm	140mm
Materials		Silicon, Copper	Silicon, Copper
Weight of product (per m)		380g	380g
IP rating		IP67	IP67
IK rating		IK07	IK07
Resistance capabilities		Flame, Salt, Solvent & UV	Flame, Salt, Solvent & UV
Cable		Pre-Wired 2 core silicon cable 1000mm**	Pre-Wired 5 core silicon cable 1000mm**
Wiring		Parallel constant voltage wiring 24V	Parallel constant voltage wiring 24V
Max. installed length		5m	5m
Cut increments		1mm	6.5mm
Cut tolerance		5mm	5mm

*For higher temperatures please contact sales@lightgraphix.co.uk
**Custom length on request

ENVIRONMENTAL

TM65	Available on request
TM66	1.5

LINEAR FLEX RANGE OVERVIEW

	LF04S-T	LF10D	LF16D	LF20D
Size	4mm x 8mm	10mm x 10mm	16mm x 16mm	20mm x 20mm
Applications	> Recessed into joinery	> Exterior > Architectural & Facade > Cove & Contour > Wet niche curved applications, which are not suitable for rigid profiles	> Exterior > Architectural & Facade > Cove & Contour > Wet niche curved applications, which are not suitable for rigid profiles	> Exterior > Architectural & Facade > Cove & Contour > Wet niche curved applications, which are not suitable for rigid profiles
IP Rating	IP54	IP67	IP67	IP67
Lumen/m	244	461	777	824
Wattage/m	9W	8W	14W	14W
CRI	90	90	90	90
CCT	2200K, 2400K, 2700K, 3000K, 4000K, 5000K	2200K, 2400K, 2700K, 3000K, 4000K, 5000K	2200K, 2400K, 2700K, 3000K, 4000K, 5000K	2200K, 2400K, 2700K, 3000K, 4000K, 5000K
Dynamic options	N/A	N/A	Tunable white	Tunable white, RGBW
Rigid Version	N/A	**LR12** 	**LR17** 	**LR20**

THE LINEAR RANGE THAT YOU WOULD EXPECT FROM LIGHTGRAPHIX

Trusted by designers for precision, consistency, and total system integration. Our updated and extended Linear range brings that same expertise to flexible and rigid luminaires, giving you the freedom to create clean, continuous lines of light, perfectly matched in colour, quality, and performance across every application.

Colour-Matched

Developed using LightGraphix-engineered LED tape, tightly binned within a two-step MacAdam ellipse. Every luminaire is visually and chromatically matched across our full range from downlights and uplights to spotlights and linear delivering consistent light quality and tone throughout the project.

Precision-Cut

Every fitting is made to measure in our UK operations - cut, connected, moulded, and IP-tested in-house. With 1 mm cutting accuracy and continuous lengths up to 5m, each product delivers technical precision and a flawless finish, ensuring your specification is realised exactly as intended.

Quality-Assured

Engineered for demanding environments, every LightGraphix Linear fitting undergoes 100% testing. Constructed from high-grade materials, including marine-quality silicon, the range is IP67-rated and resistant to flame, UV, saltwater, and solvents. Built for longevity, reliability, and performance - indoors, outdoors, or at sea.

Built to Blend

Designed to give you ultimate flexibility for your lighting design, each Linear product integrates seamlessly with our wider portfolio. Rigid and flexible options share the same light engines, allowing continuous lines of light that sit discreetly within the architecture and maintain design integrity.

Install-Ready

Manufactured, assembled, and tested through our UK operations for dependable performance and rapid turnaround. Custom lengths, pre-moulded connections, and a 5-year warranty reduce on-site work, minimise risk, and ensure every luminaire arrives ready to install.
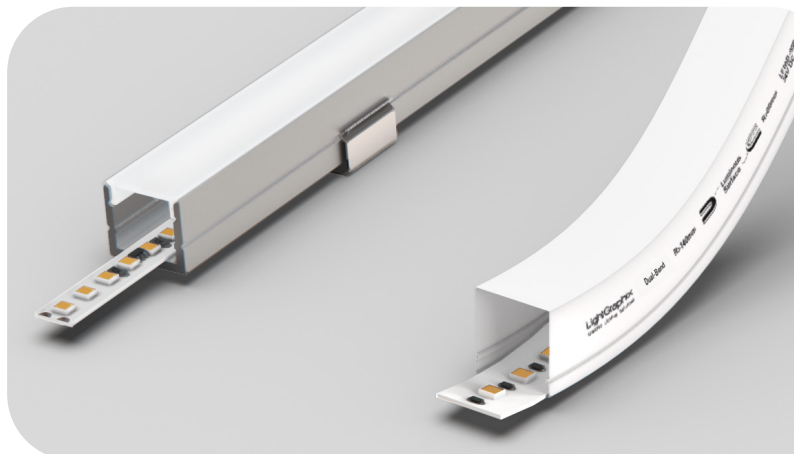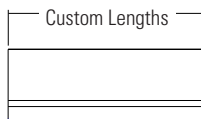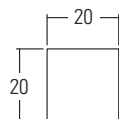
DIMENSIONS AND FIXING ACCESSORIES

Dimensions in mm

LF20

20 x 20mm square profile, available in specifiable lengths at 1mm increments from 300mm to 5000mm. Low profile moulded cable entry & ends.

```
20
20
```

Custom Lengths

FIXINGS

Dimensions in mm

/SCLF20 Spring Clip

Stainless steel Finish. Surface mount sprung stainless steel spring clips, fixed by one screw to the mounting surface. For recessed installation applications an 18mm wide slot is recommended to installing the clips in to. Fixings every 200mm are recommended for typical installation. (**Supplied in bags of 20**)


```
21
20    22.5
```

```
25
```

```
15
10.5
Ø3.5
```

```
22.5
21
22.5
22.5
```
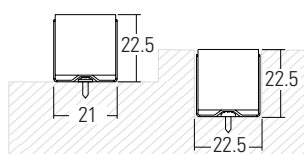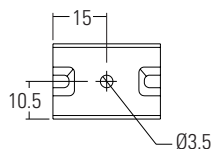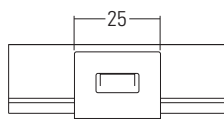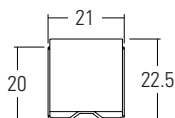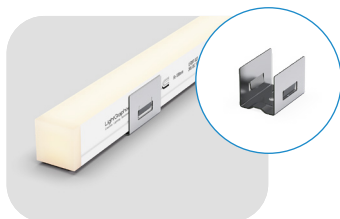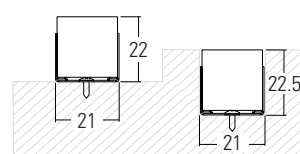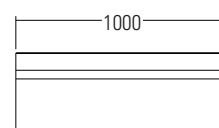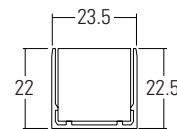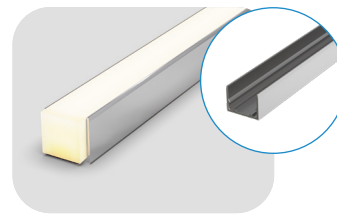
PROFILES

Dimensions in mm

/BCLF20 Bendable Channel

Stainless steel finish. The Bendable Channel allows precise control over the position of the LF product in 3 dimensions. For recessed applications, allow an 22.5mm slot for inserting the Bendable Channel into.(**Supplied in 1m lengths**)


```
21
21    22.5
```

```
1000
```

```
23    26
10.5    3.4
5
```

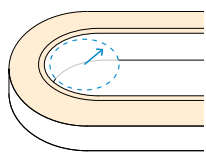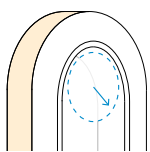```
22.5
21
22.5
22.5
```
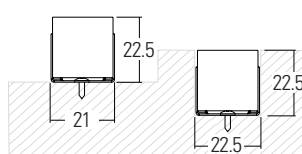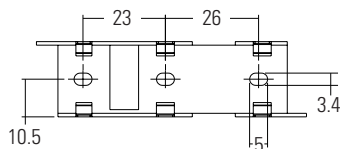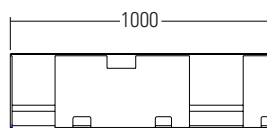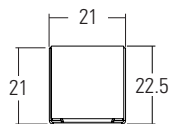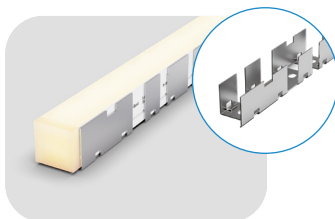
### /ELF20 Channel

Plain aluminium finish. The Extruded Channel allows surface mounted or recessed installation in straight lines. For recessed applications, allow a 22.5mm slot for inserting the Extruded channel into. (**Supplied in 1m lengths**)



```
23.5
22    22.5
```

```
1000
```

```
22
21
22.5
21
```

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MINIMUM BEND RADIUS
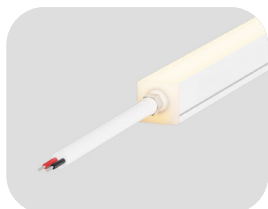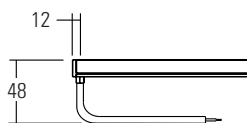

Side Bend Radius
140mm

Top Bend Radius
100mm
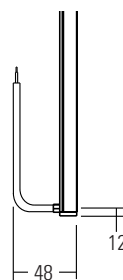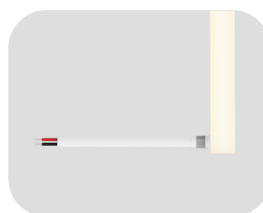
END, REAR, LEFT & RIGHT CABLE EXIT

Dimensions in mm

/End Exit

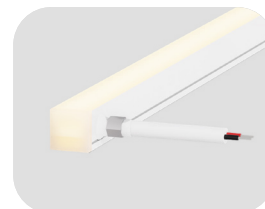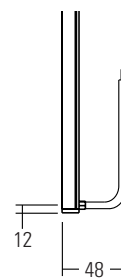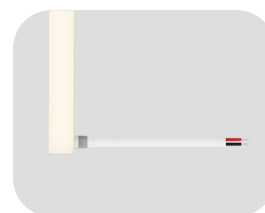### /Rear Exit

Lit Surface

12
48

/Left Exit

12
48

/Right Exit

12
48

CREATING CONTINUOUS LINES

Mounting the products end to end with opal translucent endcaps will create a continuous line of light. To enable this configuration, please select either the rear, left or right exit.

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ORDER CODES & OPTIONS

Light Engine & Drive Current		LED Colour		Cable Exit		Length (5000mm Max)		Fixing & Profiles
	/		/		/		/	

White

24V 14W/m	LF20D-14W		

Super Warm White (2200K)	/922
Very Warm White (2400K)	/924
Extra Warm White (2700K)	/927
Warm White (3000K)	/930
White (4000K)	/940
Cool White (5000K)	/950

/End Exit

/Rear Exit

/Left Exit

/Right Exit

Fixing

/SCLF20

Profile

/BCLF20

Profile

/ELF20
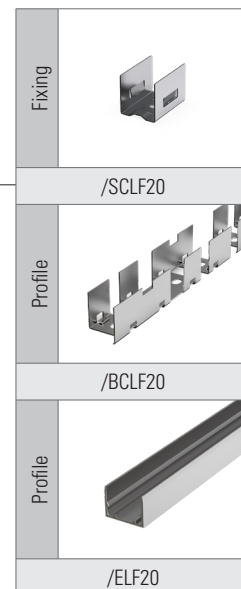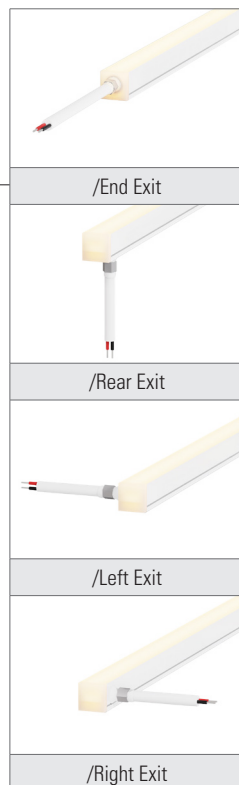
RGBW

24V 14W/m	LF20D-14W-RGBW-927
24V 14W/m	LF20D-14W-RGBW-930
24V 14W/m	LF20D-14W-RGBW-940

Drivers

To be used with 24V constant voltage LED Drivers and Controllers, We offer a range of drivers with 1-10V, DMX, and DALI dimming options.
Please download the data sheet from the downloads section at www.lightgraphix.co.uk, or contact us for more information.