

**LF20D**  
EXTERIOR/INTERIOR LINEAR FLEXIBLE



**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.



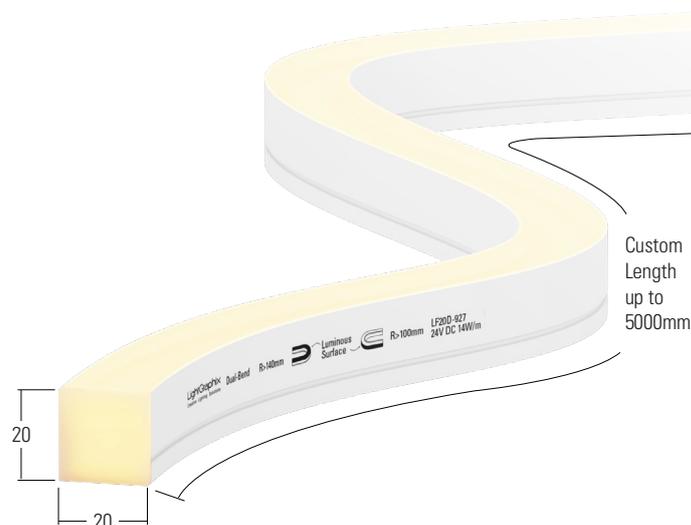
**KEY FEATURES**

- > 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.



## 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 <sub>100</sub> )*	885	493
Delivered lm/Circuit W**	63	35
Source LED lm/m	1,585	1,560
Source lm/W	113.2	111.4
Forward voltage (V <sub>100</sub> )	24V	24V
CRI	90	90
Colour consistency	2 SDCM	2 SDCM
LOR	0.56	0.32
UGR rating ('downlight' mounted)	21.8	21.8
BUG rating ('downlight' mounted)	B0-U0-G0	B0-U0-G0
TM30	RF90   RG99	-
LED lifetime (25° ambient)	L80B50 at 50,000hrs	L80B50 at 50,000hrs
Applications	   	Lumen variance by CCT

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

Ambient temperature		-20°C to 65°C	-20°C to 45°C
● 65°C		885lm/m	493lm/m
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

\*Custom length on request

## ENVIRONMENTAL

TM65	Available on request
TM66	1.5

LINEAR FLEX RANGE OVERVIEW

	LF04S-T	LF10D	LF16D	LF20D
				
<b>Size</b>	4mm x 8mm	10mm x 10mm	16mm x 16mm	20mm x 20mm
<b>Applications</b>	<ul style="list-style-type: none"> <li>&gt; Recessed into joinery</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Exterior</li> <li>&gt; Architectural &amp; Facade</li> <li>&gt; Cove &amp; Contour</li> <li>&gt; Wet niche curved applications, which are not suitable for rigid profiles</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Exterior</li> <li>&gt; Architectural &amp; Facade</li> <li>&gt; Cove &amp; Contour</li> <li>&gt; Wet niche curved applications, which are not suitable for rigid profiles</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Exterior</li> <li>&gt; Architectural &amp; Facade</li> <li>&gt; Cove &amp; Contour</li> <li>&gt; Wet niche curved applications, which are not suitable for rigid profiles</li> </ul>
<b>IP Rating</b>	IP54	IP67	IP67	IP67
<b>Lumen/m</b>	244	461	777	824
<b>Wattage/m</b>	9W	8W	14W	14W
<b>CRI</b>	90	90	90	90
<b>CCT</b>	2200K, 2400K, 2700K, 3000K, 4000K, 5000K	2200K, 2400K, 2700K, 3000K, 4000K, 5000K	2200K, 2400K, 2700K, 3000K, 4000K, 5000K	2200K, 2400K, 2700K, 3000K, 4000K, 5000K
<b>Dynamic options</b>	N/A	N/A	 Tunable white	 Tunable white, RGBW
<b>Rigid Version</b>	N/A	<p><b>LR12</b></p> 	<p><b>LR17</b></p> 	<p><b>LR20</b></p> 

## 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 1mm 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. Flexible and Rigid options share the same light engines, allowing continuous lines of light that sit discreetly within the architecture and maintain design integrity.

### Install-Ready

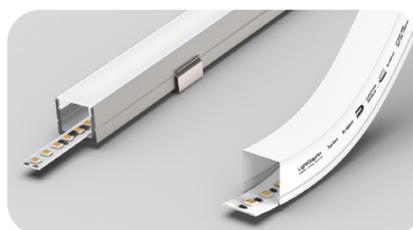
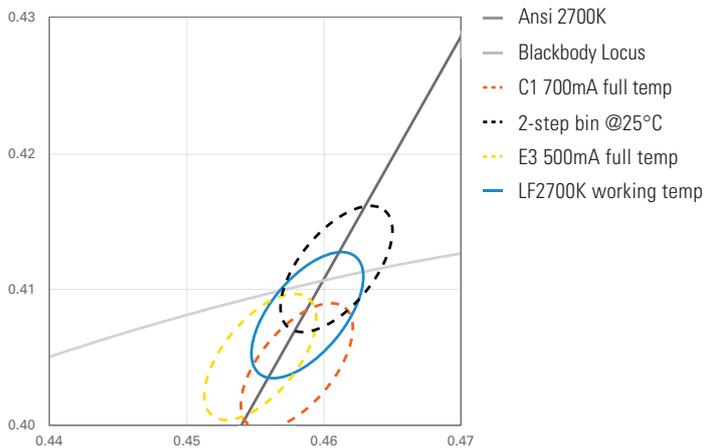
Engineered, assembled, and tested through our UK operations for dependable performance and rapid turnaround. Custom lengths, pre-moulded connections, and a 5-year warranty reduce on-site work, minimise risk, and ensure every luminaire arrives ready to install.

## COLOUR MATCHING

### At LightGraphix, colour matching goes beyond specifying the same CCT.

LEDs naturally exhibit chromatic shift as they warm, which can affect the final appearance and create perceptible inconsistencies across a lighting scheme. Our LEDs are tightly binned at 25°C within a two-step MacAdam ellipse and carefully selected to maintain colour consistency and light quality once stabilised in use. This ensures seamless integration between linear products and other LightGraphix luminaires within the project, delivering confidence wherever LightGraphix is specified.

C1 and E3 travel through the flex colour point

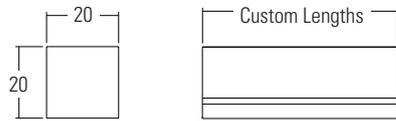


**DIMENSIONS AND FIXING ACCESSORIES**

*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.

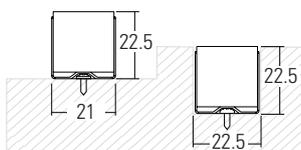
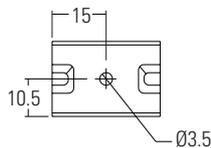
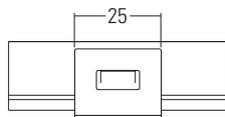
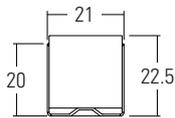


**FIXINGS**

*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)**

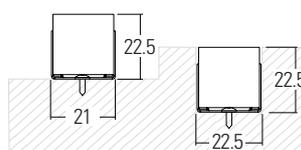
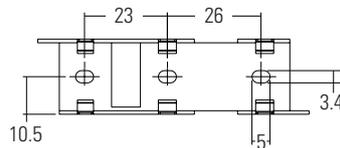
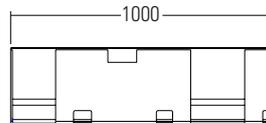
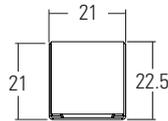
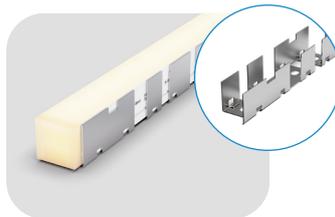


**PROFILES**

*Dimensions in mm*

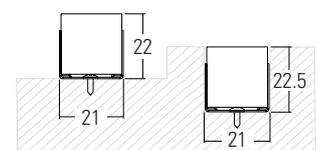
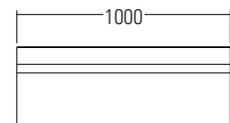
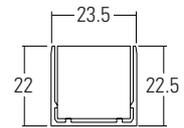
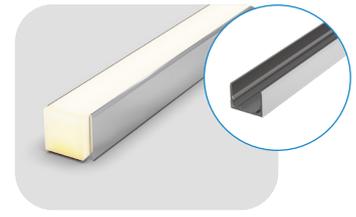
**/BCLF20 Bendable Channel**

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)**

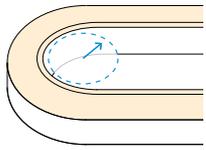


**/ELF20 Channel**

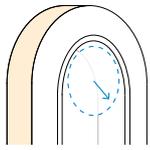
Plain aluminium finish. The Extruded Channel allows surface mounted or recessed installation in straight lines. For recessed applications, allow a 22.5mm slot for inserting the Extruded channel into. **(Supplied in 1m lengths)**



## MINIMUM BEND RADIUS



Side Bend Radius  
140mm



Top Bend Radius  
100mm

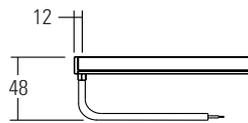
## END, REAR, LEFT & RIGHT CABLE EXIT

Dimensions in mm

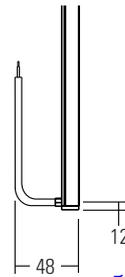
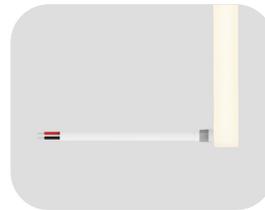
/End Exit



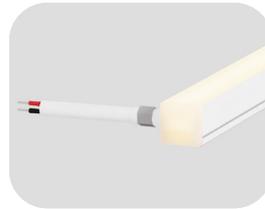
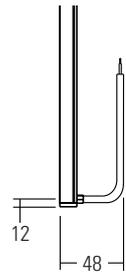
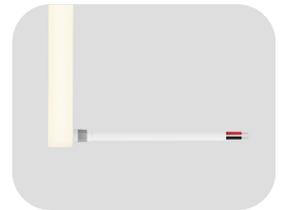
/Rear Exit



/Left Exit



/Right Exit



## 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.



ORDER CODES & OPTIONS

Example: LF20D-14W/927/End Exit/SCLF20/5000mm

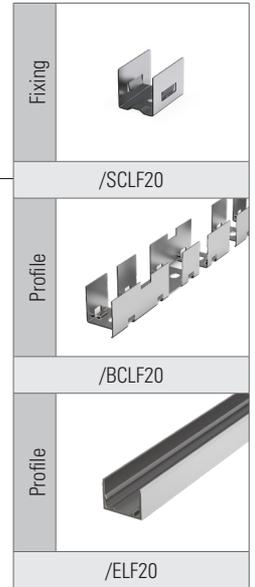
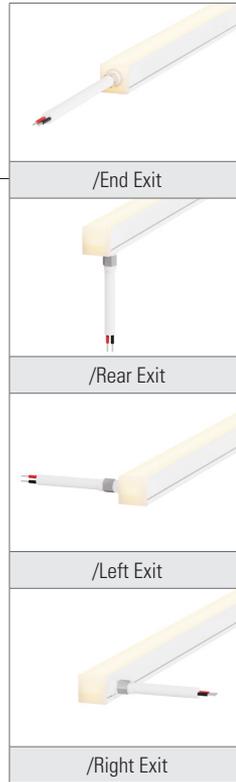
Light Engine & Drive Current / LED Colour / Cable Exit / Length (5000mm Max) / Fixing & Profiles

Ambient temperature key: ● 65°C

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



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](http://www.lightgraphix.co.uk), or contact us for more information.