

## LR12

### INTERIOR LINEAR RIGID

24V IP20 PART L Display 5 YEAR Warranty

## R+R



### 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 LR12 is a compact, rigid linear profile designed to match the LF10D, delivering clean, controlled lines of light with exacting colour consistency and a discreet architectural finish.

Built for uniformity, reliability, and visual control, the LR12 integrates seamlessly with its flexible counterpart to ensure continuity across every detail of the design.

Engineered, manufactured, and tested in-house, it provides up to 2m of continuous light, precision-cut to 1mm accuracy and supplied as IP20 for interior architectural applications.



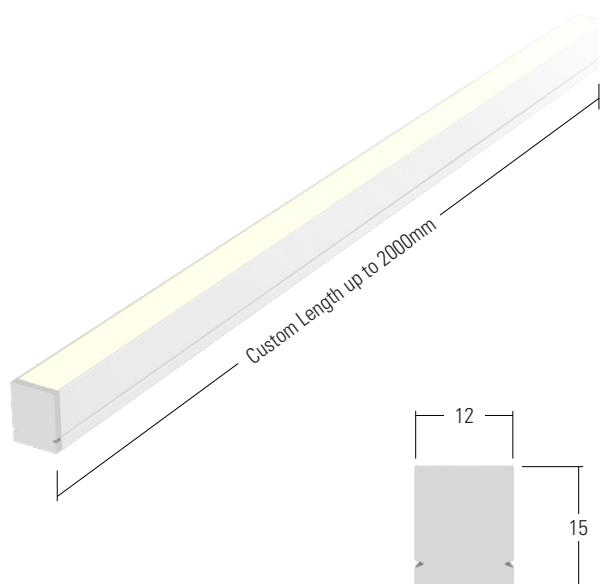
## KEY FEATURES

- > Colour-matched to the full LightGraphix range for uniform illumination across all luminaire types
- > Slim, low-profile with a 10mm light-emitting surface
- > 24V DC system allowing long lengths from a single driver
- > Colour-matched LEDs within 2-step MacAdam ellipse
- > Continuous lengths up to 2m; 1mm cut accuracy
- > Wide CCT range from 2200K - 6000K
- > IP20 as standard
- > Matching flexible profile: LF10D
- > Range of mounting options
- > Dimming: 0-10 V, DALI, Casambi, DMX, Mains
- > Engineered, manufactured, and tested in the UK

## DIMENSIONS

Dimensions in mm

For full dimensions please go to page 3.



## WHITE LED ENGINE SPECIFICATION

Engine	LT500	LT900	LT1400	LT2000
Colour temperature*	2200K, 2400K, 2700K, 3000K, 4000K, 5000K	2200K, 2400K, 2700K, 3000K, 4000K, 5000K	2200K, 2400K, 2700K, 3000K, 4000K, 5000K	2200K, 2400K, 2700K, 3000K, 4000K, 5000K
Typical LED Circuit Wattage/m	3W	6W	9W	13W
Delivered lumens (L <sub>100</sub> )*	163	326	489	676
Delivered lm/Circuit W**	49	49	49	47
Source LED lm/m	494	987	1481	2048
Source lm/W	165	165	165	158
Forward voltage (V <sub>100</sub> )	24V			
CRI	90+			
LOR	0.33			
Colour Consistency	2 SDCM			
LED Lifetime	L80B50 at 50,000hrs			
Applications	   			

These values are based on LR12/3000K/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	-20%
2400K	-11%
2700K	-4%
3000K	0%
4000K	3%
5000K	6%

## MECHANICAL

Ambient temperature	-20°C to 45°C*
Materials	Anodised Aluminum 6063 profile, polycarbonate Opal Diffuser, polycarbonate end caps, Stainless steel brackets
Weight of product (per m)	0.2Kg/m
IP rating	IP20
Cable	Pre-Wired 2 core silicon cable 1000mm**
Wiring	Parallel constant voltage wiring 24V
Max. Installed Length	2m

\*For higher temperatures please contact sales@lightgraphix.co.uk

\*\*Custom length on request

## ENVIRONMENTAL

TM65	Available on request
TM66	1.9
Repair + Refurbish	 This product is included in our Repair and Refurbish scheme. This offers customers the ability to send back products to us for repair or refurbishment to extend their life without having to buy new fittings.

## LINEAR RIGID RANGE OVERVIEW

	<b>LR12</b>	<b>LR12T</b>	<b>LR16C</b>	<b>LR17</b>	<b>LF20</b>
<b>Size</b>	15mm x 12mm	15mm x 18mm	16mm x 16mm	16mm x 17mm	20mm x 20mm
<b>Applications</b>	<ul style="list-style-type: none"> <li>&gt; Interior</li> <li>&gt; Surface Mount</li> <li>&gt; Cove &amp; Contour</li> <li>&gt; Display &amp; Shelf</li> <li>&gt; Low Depth</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Interior</li> <li>&gt; Surface Mount</li> <li>&gt; Cove &amp; Contour</li> <li>&gt; Display &amp; Shelf</li> <li>&gt; Low Depth</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Interior</li> <li>&gt; Surface Mount</li> <li>&gt; Cove &amp; Contour</li> <li>&gt; Display &amp; Shelf</li> <li>&gt; Low Depth</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Interior</li> <li>&gt; Surface Mount</li> <li>&gt; Cove &amp; Contour</li> <li>&gt; Display &amp; Shelf</li> <li>&gt; Low Depth</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Interior</li> <li>&gt; Surface Mount</li> <li>&gt; Cove &amp; Contour</li> <li>&gt; Display &amp; Shelf</li> <li>&gt; Low Depth</li> </ul>
<b>IP Rating</b>	IP20	IP20	IP20	IP20	IP20
<b>Lumen/m</b>	500-2000	500-2000	500-2000	500-2000	500-2000
<b>Wattage/m</b>	3-13W	3-13W	3-13W	3-13W	3-13W
<b>CRI</b>	90	90	90	90	90
<b>CCT</b>	2200K, 2400K, 2700K, 3000K, 4000K, 5000K				
<b>Dynamic options</b>			 Tunable white, RGBW	 Tunable white, RGBW	 Tunable white, RGBW
<b>Rigid Version</b>	<b>LF10</b>			<b>LF16D</b>	<b>LF20D</b>
		N/A	N/A		

## 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 2m, each product delivers technical precision and a flawless finish, ensuring your specification is realised exactly as intended.

### Quality-Assured

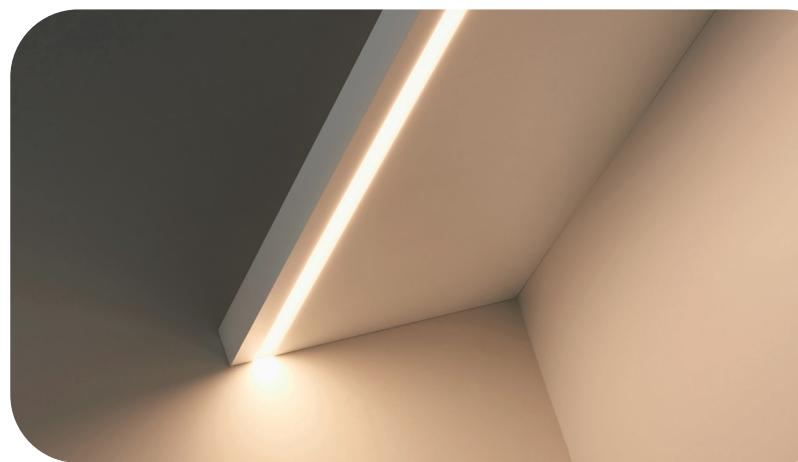
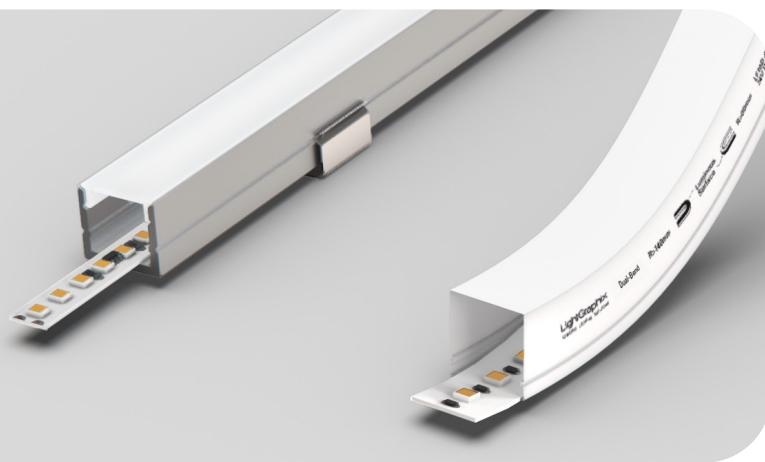
Engineered with the same design principles and light engines as our flexible range, every LightGraphix Linear Rigid fitting undergoes full in-house quality testing to ensure output consistency, colour uniformity, and long-term thermal stability. Designed for longevity and absolute trust in architectural environments.

### 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.



## DIMENSIONS AND FIXING ACCESSORIES

Dimensions in mm

### /NF No fixing

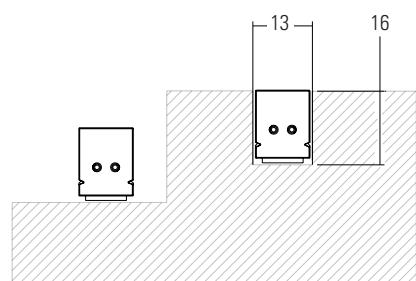
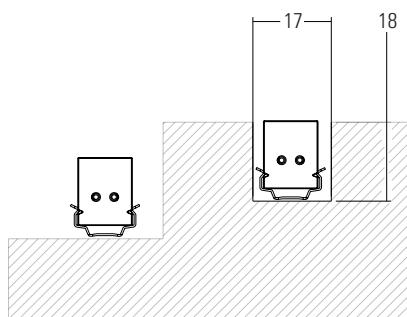
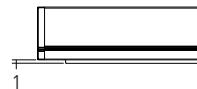
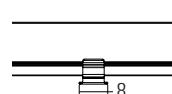
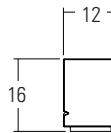
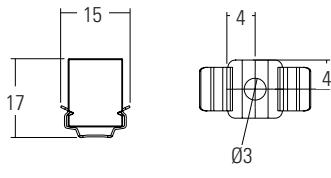
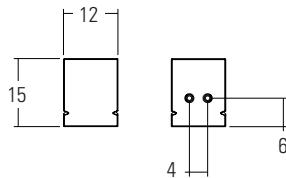
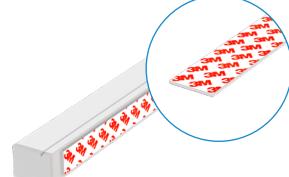
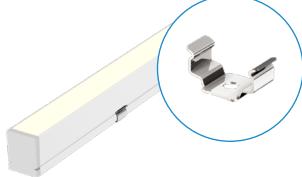
No fixing supplied. Product is bonded directly into mounting surface. Ideal for routed grooves in 30mm thick shelves.

### /SC Spring Clips

Stainless steel fixing clips are ideal for exterior environments. For example under steps or around water features.

### /3M 3M adhesive tape

3M adhesive tape is suitable for most applications and will provide a very good bond to metal, wood and painted surfaces. 1mm thickness allows for any bumps in the mounting surface. Ideal for routed grooves where the fitting needs to sit flush. Indoor only applications.



## ORDER CODES & OPTIONS

Example: LR12-LT500-14W/927/SC/2000mm

Light Engine & Drive Current

LED Colour

Fixing & Profiles

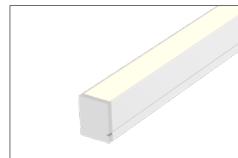
Length (2000mm Max)

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### LT500

24V 3W/m	LR12-LT500
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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



/NF



/SC



/3m

### LT900

24V 6W/m	LR12-LT900
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### LT1400

24V 9W/m	LR12-LT1400
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### LT2000

24V 13W/m	LR12-LT2000
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#### 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.