

LF16D

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 LF16D combines dual-bend flexibility with extended configuration options including Tunable White and Dim-to-Warm. Designed for projects demanding precision and consistency, it achieves seamless visual integration across the LightGraphix portfolio.

Each unit is made to measure in our UK manufacturing facility and tested to IP67 standards, ensuring long-term reliability in interior, exterior, and marine environments.



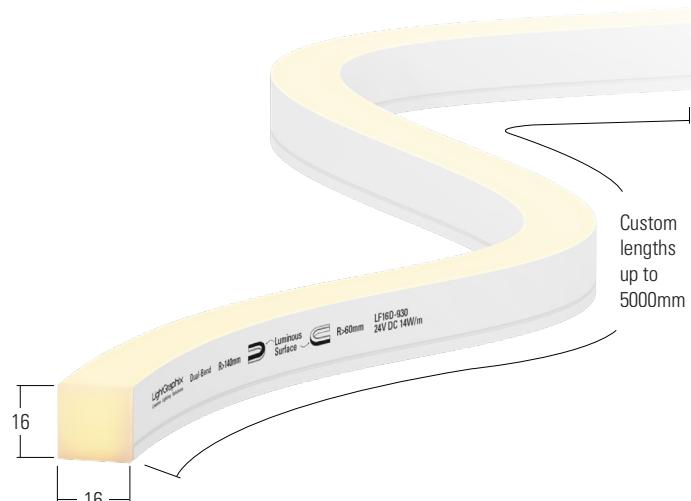
KEY FEATURES

- > Colour-matched to the full LightGraphix range for uniform illumination across all luminaire types
- > Dual bend flexibility (top 60mm / side 140mm radius)
- > Colour-matched LEDs within 2-step MacAdam ellipse
- > Flame, Salt, Solvent & UV resistant
- > Continuous lengths up to 5m; 1mm cut accuracy
- > Tunable White, Dim-to-Warm, and Ultra Long configurations (up to 50m)
- > Matching rigid profile: LR17
- > 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 |  TW - Tunable White |
| Beam angles | 120° | 120° |
| Colour temperature* | 2200K, 2400K, 2700K, 3000K, 4000K, 5000K | 2200-3000K, 2200-6000K |
| Typical LED Circuit Wattage/m | 14W | 14W |
| Delivered lumens (L ₁₀₀)* | 777 | 710 |
| Delivered lm/Circuit W** | 56 | 51 |
| Source LED lm/m | 1,585 | 1,447 |
| Source lm/W | 113 | 103 |
| Forward voltage (V ₁₀₀) | 24V | 24V |
| CRI | 90 | 90 |
| Colour consistency | 2 SDCM | 2 SDCM |
| LOR | 0.49 | 0.49 |
| TM30 | RF91 RG98 | RF91 RG98 |
| LED lifetime (25° ambient) | L80B50 at 50,000hrs | L80B50 at 50,000hrs |
| Applications |     | |

These values are based around a LD16D-930 1000mm and LD16D-922-960 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 | -13% |
| 2700K | -5% |
| 3000K | 0% |
| 4000K | 2% |
| 5000K | 7% |

MECHANICAL

| | | |
|---|---|-------|
| Ambient temperature | -20°C to 45°C* | |
| Minimum bend radius | Top | 60mm |
| | Side | 140mm |
| Materials | Silicon, Copper | |
| Weight of product (per m) | 250g | |
| IP rating | IP67 | |
| IK rating | IK06 | |
| Resistance capabilities | Flame, Salt, Solvent & UV | |
| Cable | Pre-Wired 2 core silicon cable 1000mm** | |
| Wiring | Parallel constant voltage wiring 24V | |
| Max. installed length | 5m | |
| Cut Increments | 1mm | |
| Cut Tolerance | 5mm | |
| -20°C to 45°C* | | |
| 60mm | | |
| 140mm | | |
| Silicon, Copper | | |
| 250g | | |
| IP67 | | |
| IK06 | | |
| Flame, Salt, Solvent & UV | | |
| Pre-Wired 3 core silicon cable 1000mm** | | |
| Parallel constant voltage wiring 24V | | |
| 5m | | |
| 1mm | | |
| 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

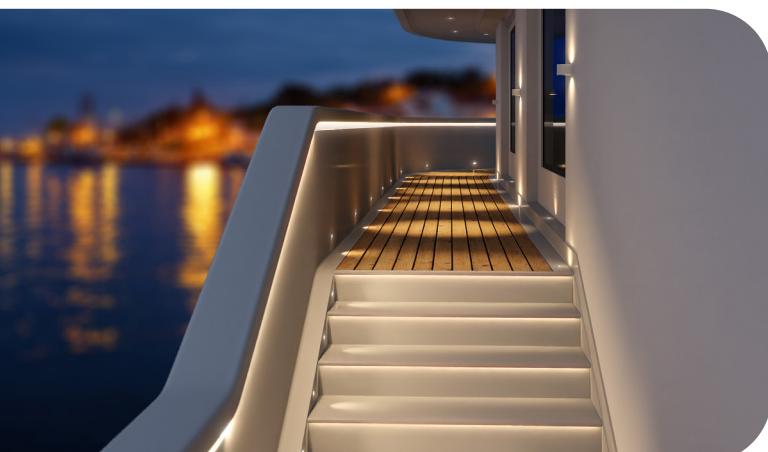
Engineered for demanding environments, every LightGraphix Linear fitting undergoes 100% testing. Constructed from high-grade materials, including marine-quality silicon, the range is IP67-rated and resistant to flame, UV, saltwater, and solvents. Built for longevity, reliability, and performance - indoors,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

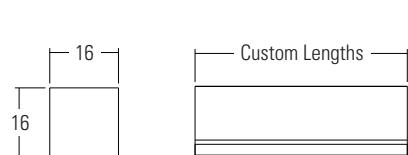


DIMENSIONS AND FIXING ACCESSORIES

Dimensions in mm

LF16

16 x 16mm square profile, available in specifiable lengths at 1mm increments from 300mm to 5000mm. Low profile moulded cable entry & ends.



FIXINGS

Dimensions in mm

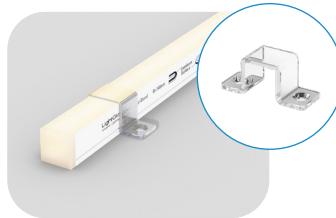
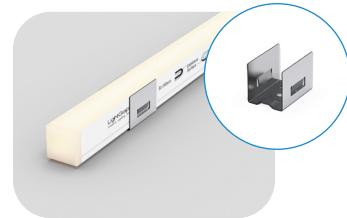
/SCLF16 Spring Clip

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)**

/CCLF16 Clear Clip

Transparent clear finish. The Clear Clip provides secure retention over the top of the LF product but still allows light to be seen. Fixings every 200mm are recommended for typical installation. **(Supplied in bags of 20)**



PROFILES

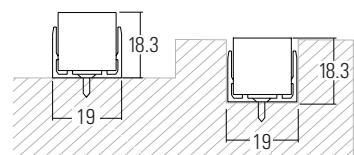
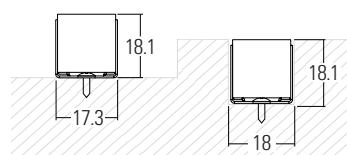
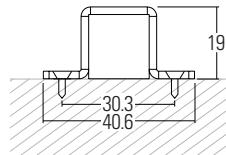
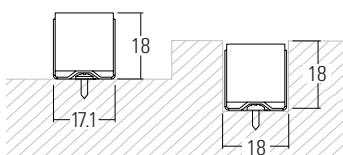
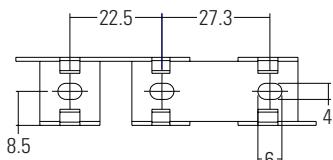
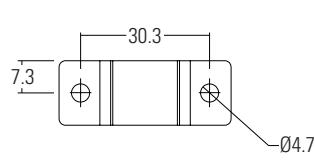
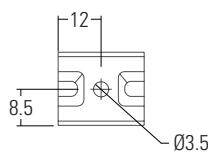
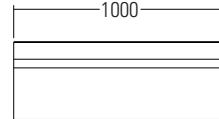
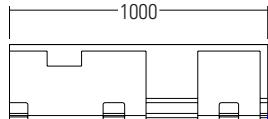
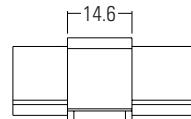
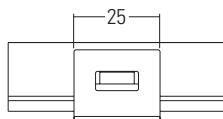
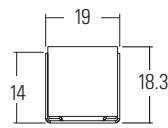
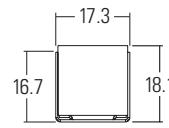
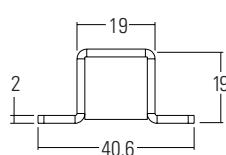
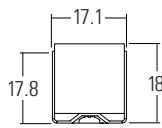
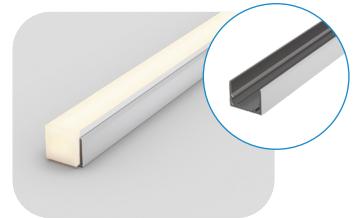
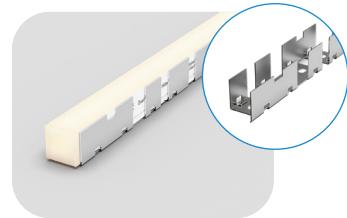
Dimensions in mm

/BCLF16 Bendable Channel

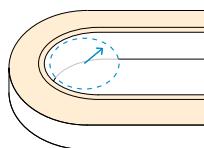
Stainless steel finish. The Bendable Channel allows precise control over the position of the LF product in 3 dimensions. For recessed applications, allow an 18.1mm slot for inserting the Bendable Channel into. **(Supplied in 1m lengths)**

/ELF16 Channel

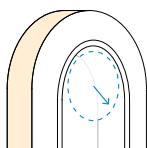
Plain aluminium finish. The Extruded Channel allows surface mounted or recessed installation in straight lines. For recessed applications, allow a 18.3mm slot for inserting the Extruded channel into. **(Supplied in 1m lengths)**



MINIMUM BEND RADIUS



Side Bend Radius
140mm



Top Bend Radius
60mm

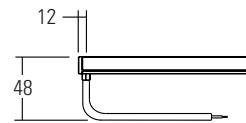
END, REAR, LEFT & RIGHT CABLE EXIT

Dimensions in mm

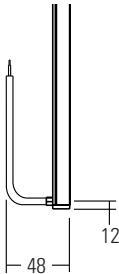
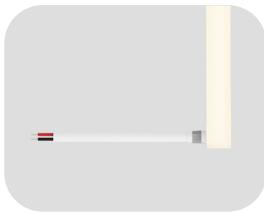
/End Exit



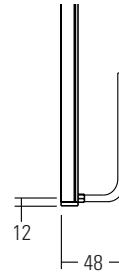
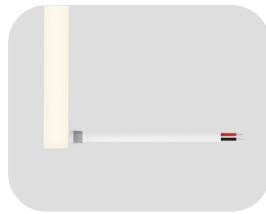
/Rear Exit



/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: LF16D-14W/927/End Exit/5000mm

Light Engine & Drive Current

LED Colour

Cable Exit

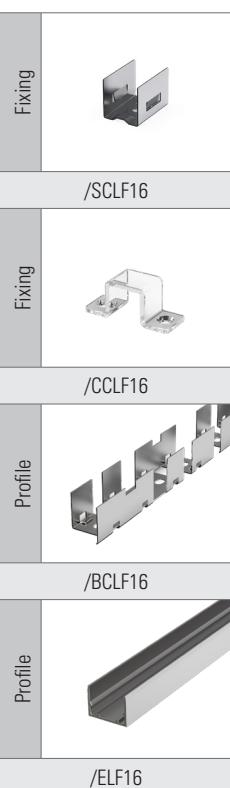
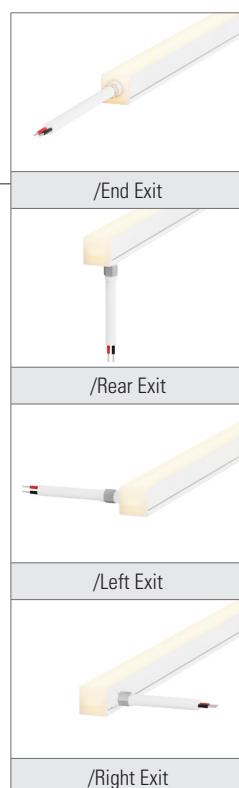
Length (5000mm Max)

Fixing & Profiles

| | | | | | | | | |
|----------------------|---|----------------------|---|----------------------|---|----------------------|---|----------------------|
| <input type="text"/> | / | <input type="text"/> |
|----------------------|---|----------------------|---|----------------------|---|----------------------|---|----------------------|

White

| | | | |
|-----------|-----------|--------------------------|------|
| 24V 14W/m | LF16D-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 |



TW

| | | | |
|-----------|-----------|---------------------------|-------------|
| 24V 14W/m | LF16D-14W | Tunable White 2200K-3000K | /TW-922-930 |
| | | Tunable White 2200K-6000K | /TW-922-960 |

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.