



# XFL Flexible Linear LED

## Full Spectrum

Xicato designs and delivers one of the broadest portfolio spot and linear light sources and electronics that enable architects, designers and building managers to create beautiful, smart spaces in which people love to live and work. With thousands of installations around the globe, Xicato continues to be a leading supplier of high quality lighting solutions. Xicato is defining the future of intelligent light sources by integrating electronics, software and connectivity. Founded in 2007, Xicato's headquarters is based in Silicon Valley and the company has offices in China, Europe and the US.

[xicato.com](http://xicato.com)

**DRY**  
LOCATION

**DC**  
ONLY

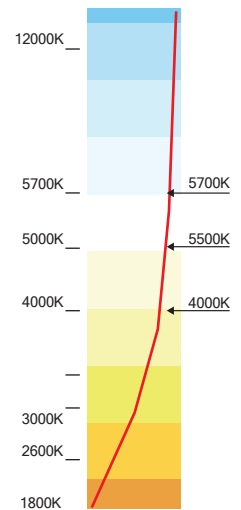
# XFL Flexible Linear LED

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### Features

- Unmatched performance for CRI, R9, Fidelity and Gamut
- Premium  $\leq 3$  SDCM color consistency
- 120 LEDs/m
- 24V input, standard for simpler power and design
- Superior construction for higher reliability and heat management
- 10-year warranty
- Available in spools (XFL) or as custom finished tape cut to a specified length with soldered lead wires



### Spec Locks

Spec Locks	Gold Plated PCB	CRI	R9	Gamut	Fidelity	SDCM Steps	Max Run	Luminous Efficacy	Benefits
Full Spectrum									Promotes wellness, low blue pump Supported by Xicato Bluetooth® Mesh Control portfolio

### XFL SKU Builder / Ordering Part Number

Model Number is built as follows: XFL-AA-BBCC-DDD-EE-FFGG (applicable to all order codes listed below)

The orderable Xicato part numbers are built as follows:

Spools: XFL-AA-BBCC-DDDEE-FFGG-HHHHH

Custom Tape: XFT-AA-BBCC-DDDEE-FFGG

<b>XFL</b>	--	<b>FS</b>	--	<b>24</b>	<b>3.0</b>	--	<b>120</b>	<b>22</b>	--	<b>40</b>	<b>95</b>	--	<b>SP005</b>
	--	FS	--	24		--	120	22	--		95	--	
Product		Collection		Voltage	Watts/foot*		LEDs/meter	IP Rating		CCT	CRI		Spool Length (m)**
XFL (Spools)					3.0					40 = 4000			5
					4.4					50 = 5000			10
XFT (Custom)					5.0					57 = 5700			30.5
					6.0								Blank*** (XFT Custom tape)

\* 1 Watt/foot = 3.28 Watts/meter

\*\* 5m Spool Length = 16.4 feet

\*\*\* This field is left blank for XFT order codes. Contact your Xicato Sales Representative to define the specific custom configuration for LED tape and soldered lead wires. The detailed configuration description will be provided with the quote and order confirmation

## XFT Custom Tape Options

Contact your Xicato Sales representative to define and order your specific custom configuration

### LED Tape

	LED Tape Cut to Length
Length	Min: 3" Max: Max run length (page 4) Available in increments of cuttable length (page 4)

### Input Lead Wire

	20 AWG UL2464 Lead Wire Only	20 AWG UL2464 Lead Wire Terminated with Female Barrel Connector
Length	Min: 3" Max: 96" Available in 1" increments	48" fixed length of lead wire
Jacket Color	Black or White	

### Optional Output Lead Wire

	20 AWG UL2464 Lead Wire Only	20 AWG UL2464 Lead Wire Terminated with Male Barrel Connector
Length	Min: 3" Max: 96" Available in 1" increments	48" fixed length of lead wire
Jacket Color	Black or White	

# Specifications

## Common properties across all SKUs

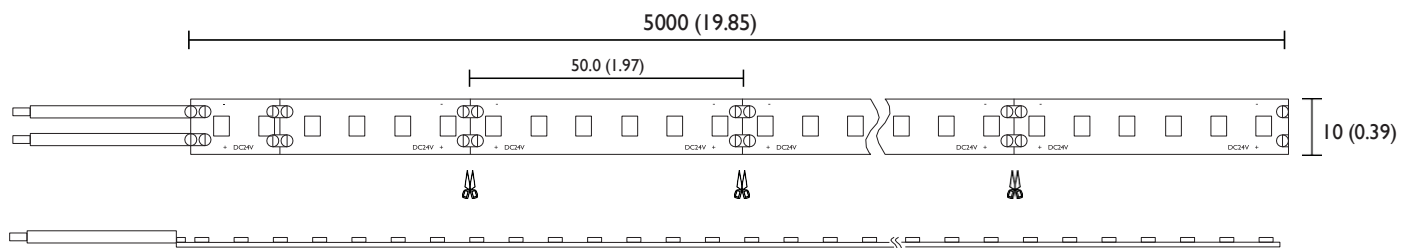
Color	Beam Angle	CRI	Voltage	IP Rating	Minimum Cuttable Length	LEDs/m	Profile	Standard Spool Length m (ft)	Operating Temperature	Storage Temperature
W	120°	95	24VDC	22	50mm (1.97")	120	10mm (0.39")	5 (16.4) 10 (32.8) 30.5 (98.4)	-20°C to 60°C	-20~ +70°C

Model No.	CCT	Efficacy (lm/W)	Flux lm/ft (lm/m)	Watts/m (W/ft)	Max Run Length m (ft)
XFL-FS-243.0-12022-4095	4000	76	228 (750)	9.84 (3)	7.5 (24.6)
XFL-FS-243.0-12022-5095	5000	77	231 (758)		
XFL-FS-243.0-12022-5795	5700	77	233 (765)		
XFL-FS-244.4-12022-4095	4000	72	318 (1046)	14.43 (4.4)	6.5 (21.3)
XFL-FS-244.4-12022-5095	5000	73	322 (1058)		
XFL-FS-244.4-12022-5795	5700	74	327 (1076)		
XFL-FS-245.0-12022-4095	4000	70	353 (1161)	16.4 (5)	6 (19.7)
XFL-FS-245.0-12022-5095	5000	71	358 (1176)		
XFL-FS-245.0-12022-5795	5700	72	363 (1191)		
XFL-FS-246.0-12022-4095	4000	68	412 (1352)	19.68 (6)	5 (16.4)
XFL-FS-246.0-12022-5095	5000	67	402 (1321)		
XFL-FS-246.0-12022-5795	5700	67	405 (1330)		

**Note:**

1. Test environment temperature : 25±2°C.
2. Values above represent typical performance.
3. Luminous flux is tested at each CCT.
4. Luminous efficiency is a measured value.
5. Max run length is in reference to a single feed.
6. Max run length refers to operating length at UL class II @100W, 24V.
7. The luminous flux and power are listed within ±10%.

## Profile Drawings



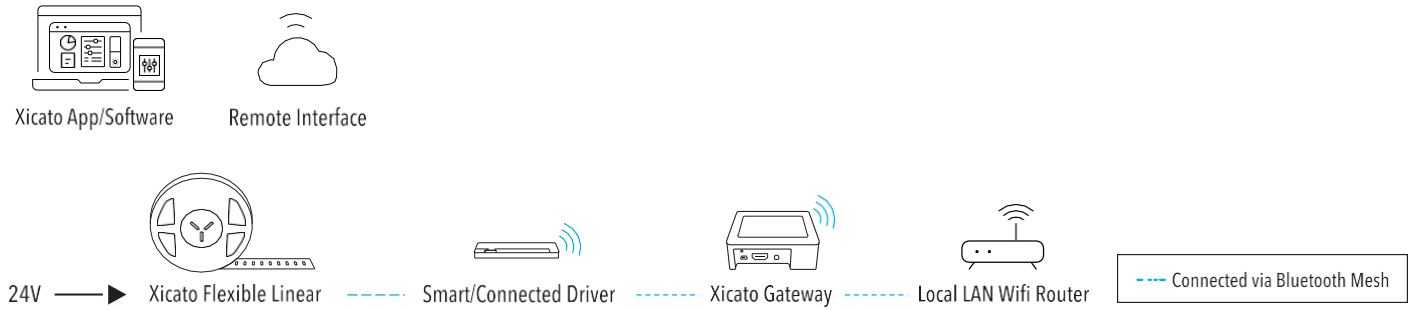
Units: mm (inches)  
Note: Tolerance ± 0.5 mm

## Max Bending Radius: $R_{min} = 20mm$



## Xicato Controls and Integration

The XFL Portfolio is part of Xicato's comprehensive end-to-end systems, energizing environments through brilliant lighting and Smart Controls.



## Connectors

For a complete list of connectors, please visit [xicato.com/xfl](http://xicato.com/xfl).

## Aluminum Channels

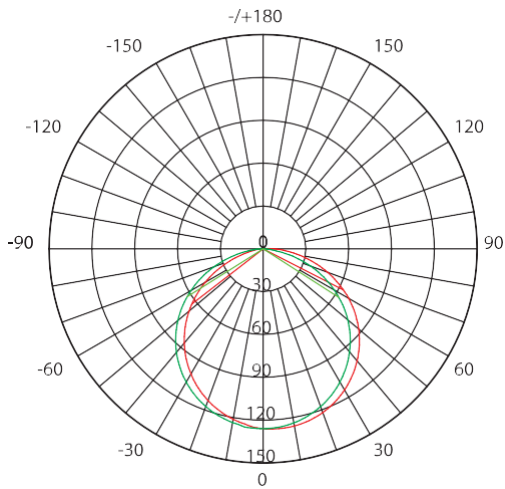
For a complete list of commonly used profiles with this product, please visit [xicato.com/xfl](http://xicato.com/xfl).

## Installation

Affix with 3M self adhesive tape. 3M tape is included with XFL.

Visit [xicato.com/support](http://xicato.com/support) to download XFL Flexible Linear LED Installation Instructions for Dry Location Linear Lighting.

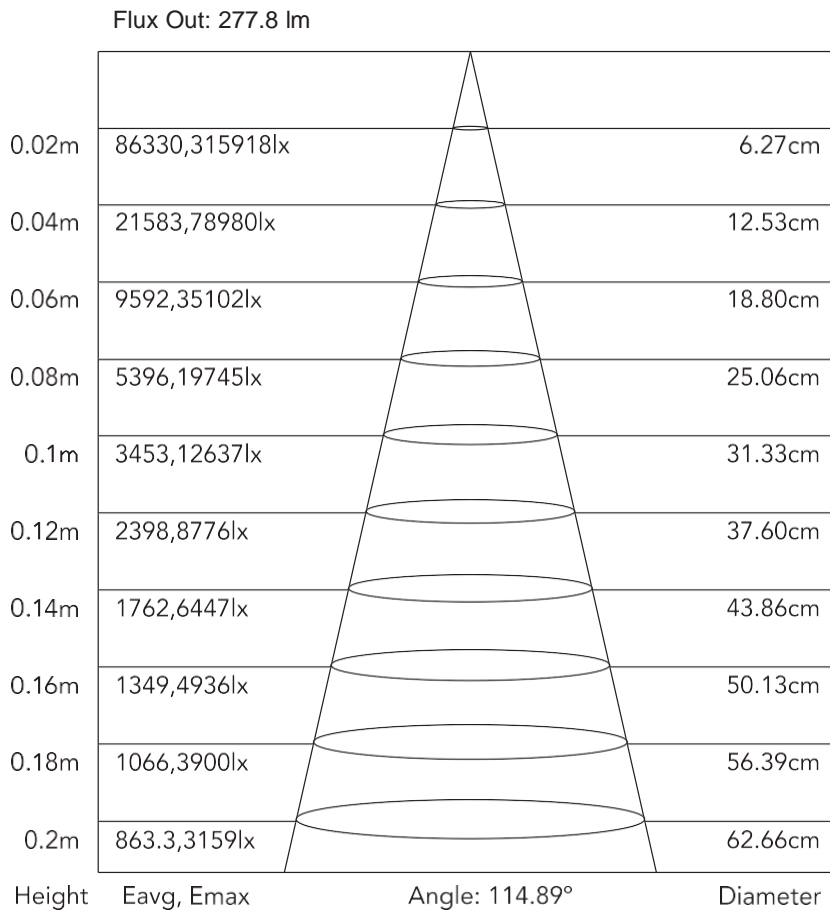
## Polar Luminous Intensity Diagram



AVERAGE BEAM ANGLE(50%): 115.1°

Unit: cd  
 — C0/180,115.1°  
 — C90/270,115.1°

## Illuminance Cone Diagram



**Note:**

The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

## Warning

1. This product should be installed and serviced in accordance with local and national electrical code regulations by a qualified, licensed electrician. If you are unclear as to how to install and wire this product, contact a qualified professional.
2. Tape light should only be powered by a UL Listed Class 2 DC 24V power supply.
3. Always disconnect the power supply before cutting or connecting tape light. Never attempt any work before shutting off the electricity.
4. Do not exceed maximum tape light run length. Series connections must be within the maximum run length.
5. LED tape light is designed to be cut at designated cut points only. Cutting anywhere other than the cut points will result in damage to the tape light.
6. Do not stare directly into LED lights when illuminated.
7. Do not power LED tape while coiled on reel.
8. Adhere tape to a clean, dry mounting surface free of oils, silicones and dirt particles. If surface is electrically conductive, isolation between soldering points and mounting surface is necessary.
9. Do not install LED tape in a location with direct exposure to the sun or where the ambient temperature is outside the listed temperature range of the product.
10. Prior to installation, verify all components (LED tape, driver, control, & accessories) are compatible. Configure and pre-test your LED system prior to installation to ensure all components are operating correctly.
11. Unused product should be properly placed and stored in an anti static bag
12. Failure to follow safety warnings, and installation instructions will void the warranty for this product.

## Consumer Acknowledgment

Xicato, Inc. stands behind its products when they are used in accordance with our specifications. When purchasing Xicato products, the customer agrees and acknowledges that design, configuration and installation are complex processes not managed by Xicato, and minor changes or errors in layout and infield adjustments may have a significant impact. Choosing correct components is critical. Xicato will work with the original purchaser to make product selections to the extent of the limited information that the customer provides, but Xicato cannot design a system that anticipates all unknown factors. For this reason, our Warranty does not cover problems caused by improper design, configuration or installation issues. Xicato strongly recommends that licensed professionals be used in the design and installation of any lighting systems with Xicato products. The specifications include important information that should be reviewed and followed.

Please read our full Terms and Conditions to understand what is covered by Xicato's official warranty.

## SLR Ecodesign & Energy Labelling

LED Light Source	Forward Voltage DC	Power Consumption $P_{on}$	Useful Flux $\Phi_{use}$	Efficiency $\eta$	SLR Energy Efficiency <sup>1,2</sup> $\eta_{TM} = \eta \times F_{TM}$	SLR Energy Efficiency Class <sup>3</sup>	Power Consumption 50cm- $P_{on}$	Useful Flux 50cm- $\Phi_{use}$	Max Allowed Power <sup>4,5</sup> 50cm- $P_{onmax}$	EPREL Registration Number
	V	W/m	lm/m	lm/W	lm/W		W	lm	W	
XFL-FS-243.0-12022-4095	24	9.84	753	77	83	G	4.92	377	6.53	1263216
XFL-FS-243.0-12022-5095	24	9.84	780	79	86	F	4.92	390	6.69	1263217
XFL-FS-243.0-12022-5795	24	9.84	800	81	89	F	4.92	400	6.82	1263218
XFL-FS-244.4-12022-4095	24	14.43	1094	76	83	G	7.22	547	8.63	1263219
XFL-FS-244.4-12022-5095	24	14.43	1106	77	83	G	7.22	553	8.71	1263220
XFL-FS-244.4-12022-5795	24	14.43	1125	78	85	F	7.22	563	8.82	1263221
XFL-FS-245.0-12022-4095	24	16.4	1247	76	83	G	8.2	624	9.58	1263222
XFL-FS-245.0-12022-5095	24	16.4	1215	74	81	G	8.2	607	9.38	1263223
XFL-FS-245.0-12022-5795	24	16.4	1229	75	82	G	8.2	614	9.46	1263224
XFL-FS-246.0-12022-4095	24	19.68	1352	69	75	G	9.84	676	10.22	1263225
XFL-FS-246.0-12022-5095	24	19.68	1321	67	73	G	9.84	661	10.03	1263226
XFL-FS-246.0-12022-5795	24	19.68	1330	68	74	G	9.84	665	10.09	1263227

### Note:

1. Per Annex I, item 2 of Directive 2009/125/EC, XFL US with beam angle 115° and >80% flux inside a 120° cone is considered DLS.
2. All XFLs are also NMLS and operate on 24V DC power.  $F_{TM}$  for DLS, NMLS is 1.089 per Annex II, Table 2, of Energy Label regulation
3. Per Annex II, Table 1, of Energy Label regulation
4. Per Annex II, item 1a, of Directive 2009/125/EC,  $P_{onmax} = C \times (L + \phi_{use} / (F \times \eta)) \times R$
5. Per Annex IV of Directive 2009/125/EC, product verification of scalable linear light sources is at 50cm or closest scalable length

## Regulatory Information

### Electrical Safety & Handling

<b>CE</b>	IEC 62031:2008
<b>UL</b>	UL 8750 Cert E499492
<b>Model</b>	XFL-FS-24-22-X
<b>Type</b>	XFL-FS-24aa-bb22-Xcc-dd

### Warranty

**Warranty Duration** 10 year

### Energy Efficiency & Performance

**CEC Title 24** JA8.5 (JA8-2019)

**Models** FS, HD, SW, US







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For the most up-to-date data sheet, please visit [xicato.com/support](https://xicato.com/support).

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