



# XFL Flexible Linear LED

## Dim to Warm



### Features

- Unmatched performance for CRI, R9, Fidelity and Gamut
- 224 LEDs/m
- 24V input, standard for simpler power design and selection
- Superior construction for higher reliability and heat management
- 10-year warranty
- Color temperature warms as intensity is reduced
- Works with PWM dimmers
- Available in spools (XFL) or as custom finished tape (XFT) 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
Dim to Warm									Superior Construction, long lifespan 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

XFL	--	DW	--	24	3.2	--	224	22	--	22.40	90/95	--	SP005
	--	DW	--	24		--	224	22	--	22.40	90/95	--	
Product		Collection		Voltage	Watts/foot*		LEDs/meter	IP Rating		CCT	CRI		Spool Length (m)**
XFL (Spools)					3.2					2200 - 4000	90/95		5
XFT (Custom)													10
													30.5
													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)	Max Operating Tc	Storage Temperature
W+W	120°	95+	24VDC	22	62.5mm (2.46")	224	10mm (0.39")	5 (16.4) 10 (32.8) 30.5 (98.4)	80°C	-20~ +70°C

Part	CCT	Efficacy (lm/W)	Flux lm/m (lm/ft)	Watts/m (W/ft)	Max Run Single Feed m (ft)
XFL-DW-243.2-22422-22.4095/95	2200-4000	≤66	≤700 (≤213)	10.5 (3.2)	4.5 (14.8)

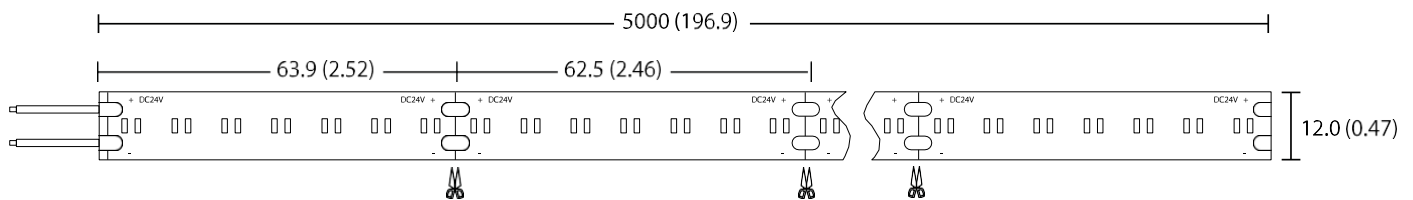
**Note:**

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%.

## Performance Over CCT Range

Model Number	Intensity Level	Flux (lm/m)	CCT (K)	CRI	R9	TM30 Rf	TM30 Rg
XFL-DW-2403.6-22422-22.4095/95	1%	5	2273	96	98	93	104
	17.5%	116	3363	96	91	95	105
	34%	237	3764	97	98	96	103
	50%	355	3911	98	99	96	103
	67%	479	3992	98	97	96	102
	83.5%	598	4051	98	95	96	102
	100%	713	4076	98	93	96	102

## Profile Drawings



Units: mm (inches)

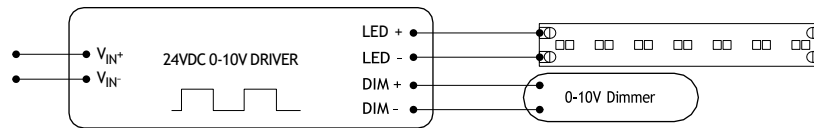
# Wiring for Controls

## Common properties across all SKUs

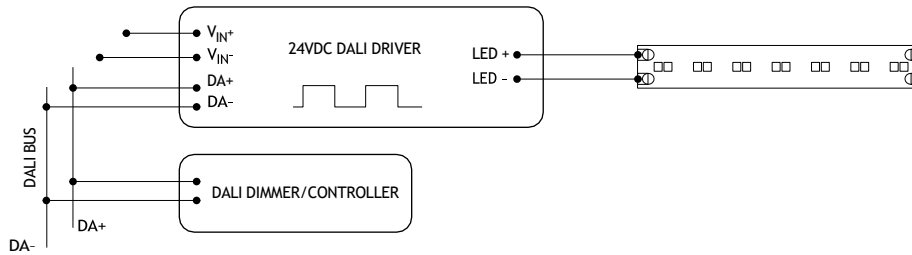
XFL Dim to Warm dimming is achieved by varying the PWM duty cycle of the current into the XFL tape light.

Apply one of the following dimming methods to dim the Dim to Warm XFL Flexible Linear Tape. Wiring diagrams shown here are for reference only. Always consult the driver or power supply data sheet for wiring diagram and controller/dimmer compatibility.

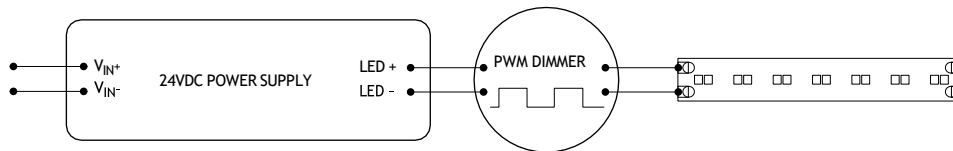
### 1. 0-10V Dimming



### 2. DALI

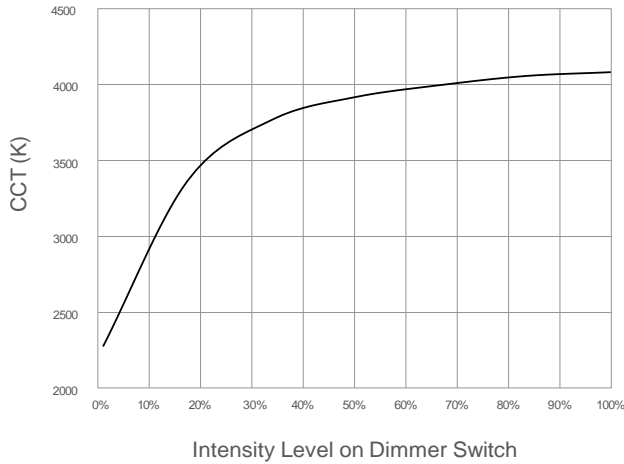


### 3. Inline PWM Dimmer

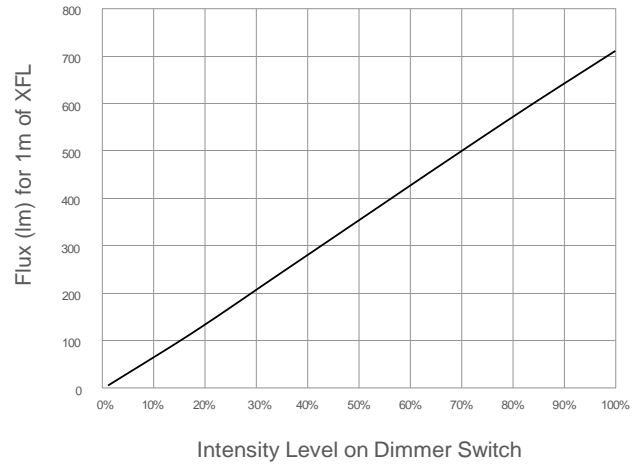


## Dimming Curve

XFL DW 4000K-2200K, CCT vs Intensity Level



XFL DW 4000K-2200K, Flux vs Intensity Level



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



## Xicato Controls and Integration

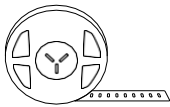
The XFL Portfolio is part of Xicato's comprehensive end-to-end systems, energizing environments through brilliant lighting and Smart Controls.



Xicato App/Software



Remote Interface



24V —> Xicato Flexible Linear



Smart/Connected Driver



Xicato Gateway



Local LAN Wifi Router

Connected via Bluetooth Mesh

## Connectors

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

## Aluminum Channels

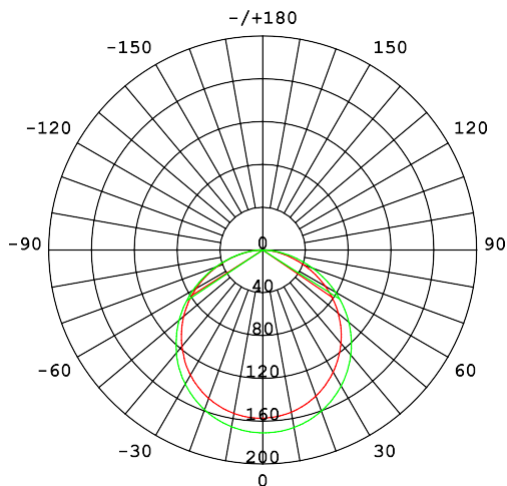
For a complete list of commonly used profiles with this product, please visit [xicato.com/xfl](http://xicato.com/xfl).

## 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.

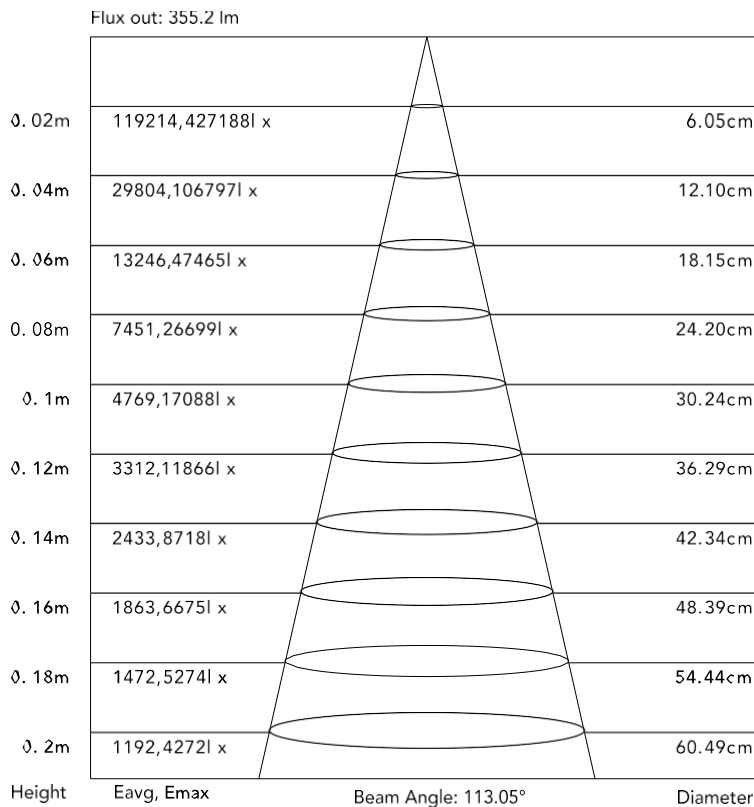
## Polar Luminous Intensity Diagram



AVERAGE BEAM ANGLE(50%): 113.4°

Unit: cd  
 — C0/180,113.1°  
 — C90/270,113.8°

## Illuminance Cone Diagram



**Note:**

The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.  
 Measurements at 100% intensity

## 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.

## Regulatory Information

### Electrical Safety & Handling

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

### Warranty

<b>Warranty Duration</b>	10 year
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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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