

XFL Flexible Linear

Dim to Warm

Uncompromised Warm Dimming

XFL Dim-to-Warm delivers the glow of traditional tungsten filament as it dims from 4000K to 2200K setting the perfect mood while maintaining superior color fidelity from full output to candlelight.

Features/Benefits

- **Superior Dim-to-Warm** – mimics incandescent dimming as it shifts from 4000K to 2200K
- **Exceptional Performance** – Uncompromised color metrics in CRI, R9, and fidelity from white to candlelight
- **High LED Density** – minimizes LED pixelation with the tightly packed 224 LEDs per meter
- **Standard 24V DC Input** – Simplifies power design, selection, and integration.
- **Robust Construction** – with premium thermal design optimizes color and lumen maintenance over life.
- **10-year warranty** – means specification-grade assurance.

Applications

Superior Illumination for:

- Luxury Hotel and Resorts
- Fine Dining, High-end Restaurants
- Wine Bars and Lounges
- Hospitality Accent Lighting
- Boutique Retail Stores
- Jewelry and Luxury Goods Display
- Museums and Galleries
- High-end Residential



RoHS



ORDERING LOGIC

Model		Voltage		Watts/Ft*		LEDs/meter		IP Rating		CCT		CRI		Spool	
XFL-DW	Dim to Warm	24	24V	3.2	3.2W/ft	224	224 LEDs/m	22	IP 22 Rated	22.40	2200K -4000K	90/95	90/95 CRI	SP005	5m**
XFT-DW	Custom Tape													SP010	10m**
														SP030	30.5m**
														Blank***	XFT***

Spools Example: XFL-DW-243.2-22422-22.4090/95-SP005

Custom Tape Example: XFT-DW-243.2-22422-22.4090/95

* 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 specific custom configurations and soldered lead wires. The detailed configuration description will be provided with the quote and order confirmation

XFT CUSTOM TAPE OPTIONS

LED TAPE

Min Length 76mm (3")

Max Length 4.5m

Increment Cuttable to Increments of 12.5 mm

INPUT LEAD WIRE

LEAD WIRE ONLY

Wire 20 AWG UL2464

Length 3" – 96"

Increment 1" increments

Jacket Black or White

LEAD WIRE TERMINATED WITH FEMALE CONNECTOR

Wire 20 AWG UL2464

Length Fixed 48"

Increment NA

Jacket Black or White

OPTIONAL OUTPUT LEAD WIRE

LEAD WIRE ONLY

Wire 20 AWG UL2464

Length 3" – 96"

Increment 1" increments

Jacket Black or White

LEAD WIRE TERMINATED WITH MALE CONNECTOR

Wire 20 AWG UL2464

Min / Max Fixed 48"

Increment NA

Jacket Black or White

GENERAL SPECIFICATIONS

Color White + Warm	IP Rating IP 22	Standard Spool m (ft) 5(16.4), 10(32.8), 30(98.4)
Beam Angle 120°	LEDs/meter 224	Operating Temp. 80°C
CRI 95+	Min Cuttable Length 62.5 mm (2.46")	Storage Temp. -20°C to +70°C
Input Voltage 24 VDC	Profile Width 12 mm (0.47")	Input Wire 20 AWG UL2464

TYPICAL PERFORMANCE

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

Notes:

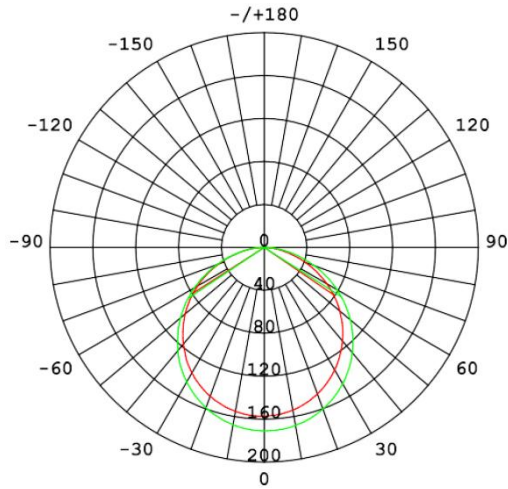
1. Test environment temperature : 25±2°C.
2. Values above represent typical performance.
3. Luminous flux is tested at each CCT.
4. Luminous efficiency is a measured value.
5. Max run length is in reference to a single feed.
6. Max run length refers to operating length at UL class II @100W, 24V.
7. The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

All data shown is nominal. Specifications and data are subject to change without notice.

POLAR LUMINOUS INTENSITY



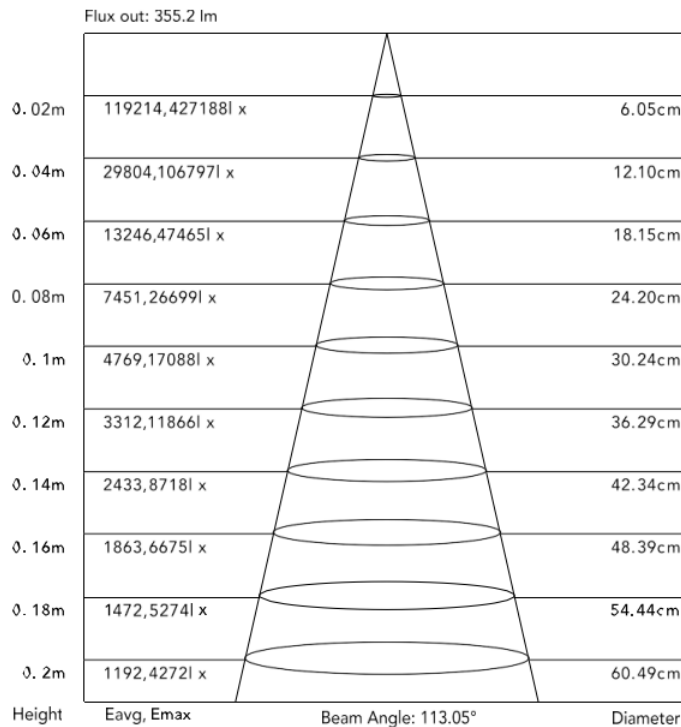
AVERAGE BEAM ANGLE(50%): 113.4°

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

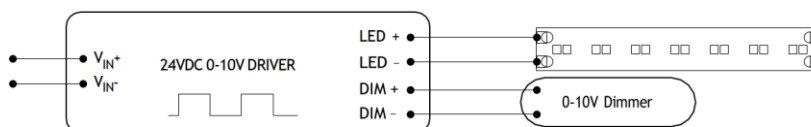
WIRING DIAGRAMS

Common properties across all SKUs

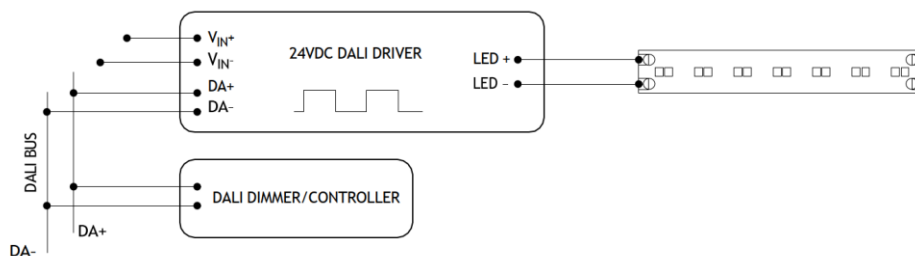
XFL Dim to Warm dimming is achieved by varying the PWM duty cycle of the current into the XFL tape light.

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.

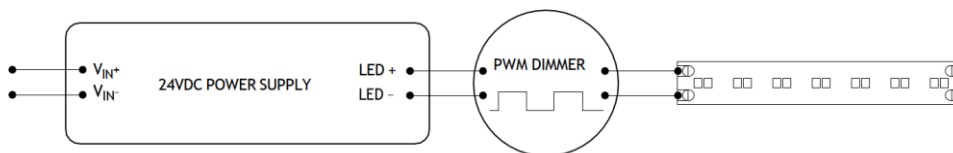
1. 0-10V Dimming



2. DALI

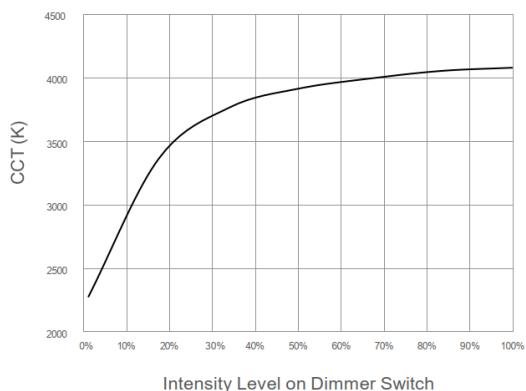


3. Inline PWM Dimmer

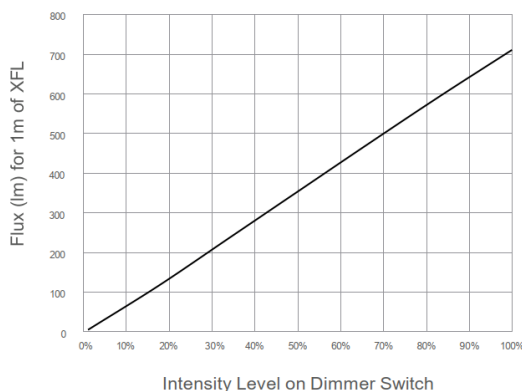


Dimming Curve

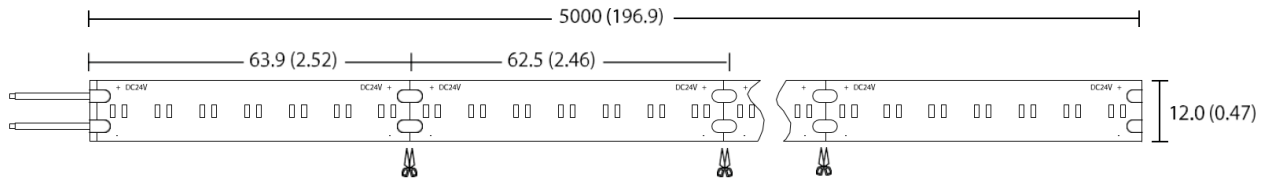
XFL DW 4000K-2200K, CCT vs Intensity Level



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



PROFILE DRAWINGS



Units: mm [inches]

MINIMUM BENDING RADIUS

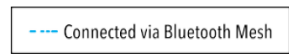
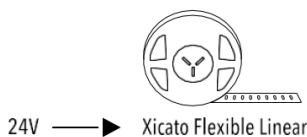
$R_{min} = 20 \text{ mm}$

Do not exceed minimum bend radius.
Exceeding will damage PCB traces.



XICATO XMESH CONTROL AND INTEGRATION

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



RECOMMENDED CHANNELS

SQUARE SERIES

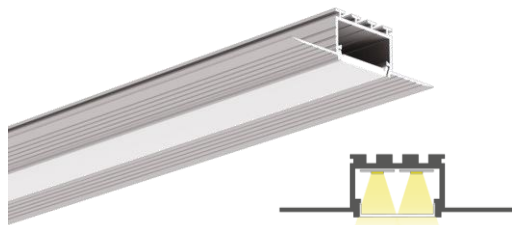


RECESSED
XCC-C-SQ-PDSNK

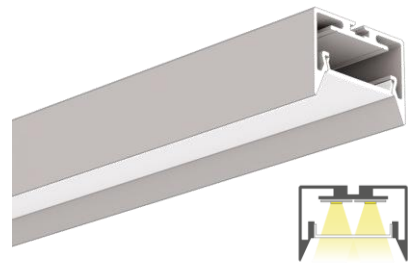


SURFACE / SUSPENDED
XCC-C-SQ-PDS4PLUS

RECTANGLE SERIES



MUD-IN RECESSED
XCC-C-RT-KOZUS



SUSPENDED
XCC-C-RT-GIZALLZMG



SURFACE
XCC-C-RT-GIZALL

RECOMMENDED ENDCAPS AND MOUNTS

SQUARE SERIES

Model	Type	Finish	XCC-E-SQ-PDS4PLUS	XCC-C-SQ-PDSNK
XCC-E-SQ-PDS4PLUS-GR-STD	End Cap	Gray	✓	
XCC-E-SQ-PDS4PLUS-WH-STD	End Cap	White	✓	
XCC-E-SQ-PDS4PLUS-BK-STD	End Cap	Black	✓	
XCC-E-SQ-PDS4PLUS-GR-HOLE	End Cap with Hole	Gray	✓	
XCC-E-SQ-PDS4PLUS-WH-HOLE	End Cap with Hole	White	✓	
XCC-E-SQ-PDS4PLUS-BK-HOLE	End Cap with Hole	Black	✓	
XCC-E-SQ-PDSNK-GR-STD	End Cap	Gray		✓
XCC-E-SQ-PDSNK-WH-STD	End Cap	Clear Plastic		✓
XCC-E-SQ-PDSNK-BK-STD	End Cap			✓
XCC-E-SQ-PDSNK-GR-HOLE	End Cap with Hole			✓
XCC-E-SQ-PDSNK-WH-HOLE	End Cap with Hole			✓
XCC-E-SQ-PDSNK-BK-HOLE	End Cap with Hole			✓
XCC-M-SQ-PDS4PLUS-PDS-WH	Mounting Bracket	White	✓	
XCC-M-SQ-PDS4PLUS-PDS-BK	Mounting Bracket	Black	✓	
XCC-M-SQ-PDS4PLUS-PDSSTN-SL	Mounting Bracket	Stainless Steel	✓	
XCC-M-SQ-PDS4PLUS-PLPDM-GR	Mounting Bracket	Gray	✓	
XCC-M-SQ-PDS4PLUS-PDSSTN90D-SL	90Deg Mount	Stainless Steel	✓	
XCC-M-SQ-PDS4PLUS-REGPD-GR	Adjustable Mount	Gray	✓	

RECOMMENDED ENDCAPS AND MOUNTS

RECTANGLE SERIES

Model	Type	Finish	XCC-C-RT-GIZALLZMG	XCC-C-RT-GIZALL	XCC-C-RT-KOZUS
XCC-E-RT-GIZALL-GR-STD	End Cap	Gray		✓	
XCC-E-RT-GIZALL-WH-STD	End Cap	White		✓	
XCC-E-RT-GIZALLZMG-GR-STD	End Cap	Gray	✓		
XCC-E-RT-GIZALLZMG-BK-STD	End Cap	Black	✓		
XCC-E-RT-KOZUS-GR-STD	End Cap	Gray			✓
XCC-M-RT-GIZALL-GIP-GR	Mounting Bracket	Gray		✓	
XCC-M-RT-GIZALL-GIP-BK	Mounting Bracket	Black		✓	
XCC-M-RT-GIZALL-REGIP-GR	Adjustable Mount	Gray		✓	
XCC-M-RT-GIZALL-GIPSTN-SL	Mounting Bracket	Stainless Steel		✓	

RECOMMENDED COVERS AND LENSES

Channel Extrusion		Frosted	Clear	Satin	Black
Square					
XCC-C-SQ-PDSNK		XCC-L-HS11-FR	XCC-L-HS11-CL	XCC-L-LIGER11-ST	XCC-L-LIGER11-BK
XCC-C-SQ-PDS4PLUS		XCC-L-HS11-FR	XCC-L-HS11-CL	XCC-L-LIGER11-ST	XCC-L-LIGER11-BK
Rectangle					
XCC-C-RT-KOZUS		XCC-L-HS22-FR	XCC-L-HS22-CL	XCC-L-LIGER22-ST	XCC-L-LIGER22-BK
XCC-C-RT-GIZALL		XCC-L-HS22-FR	XCC-L-HS22-CL	XCC-L-LIGER22-ST	XCC-L-LIGER22-BK
XCC-C-RT-GIZALLZMG		XCC-L-HS22-FR	XCC-L-HS22-CL	XCC-L-LIGER22-ST	XCC-L-LIGER22-BK

RECOMMENDED POWER SUPPLIES

			XFL DW
Standard Non-Dimmable			
Meanwell	LPV 20W	20W	✗
Meanwell	LPV 40W	40W	✗
Meanwell	LPV 60W	60W	✗
Meanwell	HLG-100H-24	96W	✗
ELV/Triac Dimmable			
Hatch	LV60-24T-UNV-RR	60W	✓
Hatch	LV96-24T-UNV-II	96W	✓
0-10V / PWM			
Meanwell	PWM-90-24	90W	✓
Meanwell	PWM-60-24	60W	✓
Meanwell	PWM-40-24	40W	✓
Ltech	LM-100-24-U2A2	96W	✗
Xicato	XMV-96V5D2M40-A6A*	96W	✓
DALI			
Ltech	LM-100-24-U2D2	96W	✗
ELDOLED	LIN100S1 / M1	96W	✗
DMX			
Ltech	LM-100-24-U2M2	96W	✗
ELDOLED	LIN100S1 / M1	96W	✗
Xicato Xmesh			
Xicato	XMV-96V5D2M40-A6A*	96W	✓

*XMV is a 24VDC driver and should be paired with an adequate standard non-dimmable driver in order to work with AC power source.

WARRANTY

10

**YEAR
WARRANTY**

Limited Product Warranty

What is Covered

Xicato warrants the XFL product against defects in materials and workmanship for 10 years from date of purchase when used in accordance with product specifications and installation guidelines.

SAFETY AND INSTALLATION WARNINGS

1. Install per local/national electrical code by a licensed electrician.
2. Power with UL Listed Class 2, 24VDC power supply only.
3. Disconnect power before cutting or connecting tape light.
4. Do not exceed maximum run length. Cut at designated cut points only.
5. Do not power LED tape while coiled on reel.
6. Adhere to clean, dry mounting surface free of oils, silicones, and contaminants.
7. Do not install where ambient temperature exceeds rated range.
8. Verify all component compatibility before installation.
9. Do not stare directly into illuminated LED light.
10. Store unused product in anti-static bag.
11. Failure to follow instructions voids warranty.

Consumer Acknowledgment

Please read full Terms and Conditions at xicato.com. Licensed professionals strongly recommended.