

XFL Flexible Linear

RGBW

Dynamic Color and Superior White

A step above traditional RGBW, the XFL-RGBW delivers a true CRI 95 white at 3000K and rich dynamic color — compatible with any 4-channel driver for any wired or wireless control architecture.

Features/Benefits

- **Dynamic Color** - Rich illumination with saturated color, multiple hues, and white light output.
- **Superior White Light** - 3000K white light with CRI95 for superior color rendering.
- **Leading Edge Design** - Advanced on-board circuitry compatible with any 4-channel 24V constant voltage drivers simplifying power design and driver selection.
- **Smart Control Ready** - Pair with Xicato Xmesh to enable wireless and automated dynamic color tuning.
- **Superior Build Quality** - Engineered for enhanced reliability and efficient heat dissipation.
- **Flexible Delivery Options** - Available in spools (XFL) or custom-finished tape (XFT), cut to length with soldered lead wires.

Applications

Superior Illumination for:

- Restaurants, Bars, and Hospitality
- Luxury Dining and Lounges
- Hotels and Resorts
- Entertainment Venues
- Retail and Department Stores
- Museums and Galleries
- Corporate and Commercial Offices
- Gaming and Casinos
- High-end Residential



RoHS



ORDERING LOGIC

Model		Voltage		Watts/Ft*		LEDs/meter		IP Rating		CCT		CRI		Spool	
XFL-RGBW	RGBW	24	24V	7.6	7.6W/ft	192	192 LEDs/m	22	IP 22 Rated	30	3000K	95	95 CRI	SP005	5m**
XFT-DW	Custom Tape													SP010	10m**
														SP030	30.5**
														Blank***	XFT***

Spools Example: XFL-RGBW-247.6-19222-3095-SP005

Custom Tape Example: XFT-RGBW-247.6-19222-3095-SP005

* 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 76.2mm (3")

Max Length 3m

Increment Cuttable to Increments of 62.5 mm

INPUT LEAD WIRE

LEAD WIRE ONLY

Wire 20 AWG UL2464

Length 3" – 96"

Increment 1" increments

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

GENERAL SPECIFICATIONS

Color White	IP Rating IP 22	Standard Spool m (ft) 5(16.4), 10(32.8), 30.5(98.4)
Beam Angle 135°	LEDs/meter 192	Operating Temp. -20°C to +60°C
CRI 95	Min Cuttable Length 62.5 mm (3.94")	Storage Temp. -20°C to +70°C
Input Voltage 24 VDC	Profile Width 12 mm (0.47")	Input Wire 20 AWG UL2464

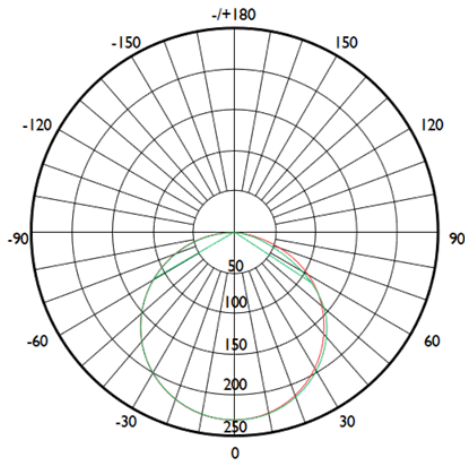
TYPICAL PERFORMANCE

Model Number	Light Color	Color Temperature / Wavelength	Flux lm/m (lm/ft)	Ra	Efficacy (W/m)	Power W/m (W/ft)
XFL-RGBW-247.6-19222-3095	W	3000K	681 (208)	90+	88	8 (2.4)
	R	620-630nm	161 (49)	--	28	6 (1.8)
	G	515-530nm	368 (112)	--	62	6 (1.8)
	B	460-470nm	83 (25)	--	14	6 (1.8)
	RGB	10000K	566 (173)	--	31	17 (5.2)
	RGB+W	8000K	1148 (350)	--	44	25 (7.6)

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%.

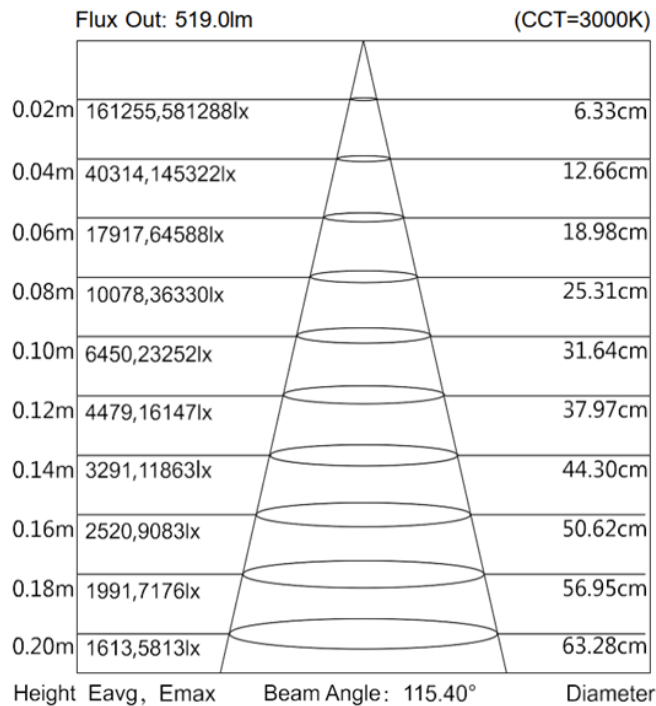
POLAR LUMINOUS INTENSITY



AVERAGE BEAM ANGLE(50%): 115.5°

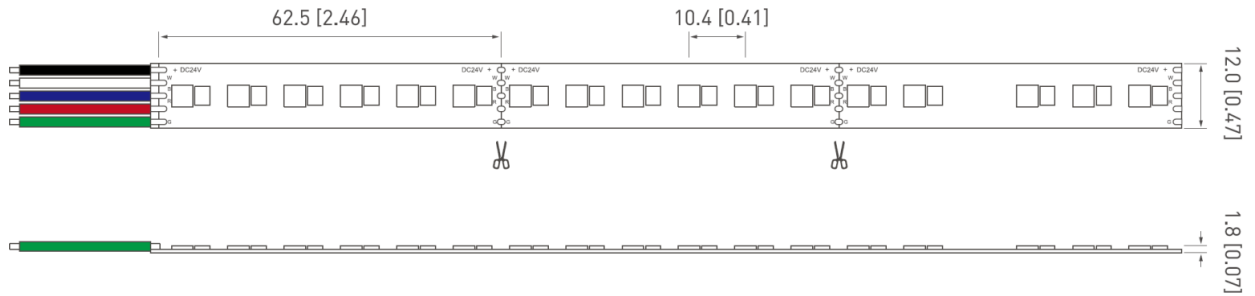
Unit: cd
 — C0/180, 115.7°
 — C90/270, 115.4°

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

PROFILE DRAWINGS



Units: mm [inches]



- "A" joint pad size 2.25mm
- "B" joint pad size 3mm
- "A" joints are 62.5mm apart
- "B" joints are 500mm apart
- 11 x "B" joints in a spool of 5m
- Cutting is advised along "A" joints, not "B" joints

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.



Xicato App/Software



Remote Interface



24V —> Xicato Flexible Linear



--- Smart/Connected Driver



--- Xicato Gateway

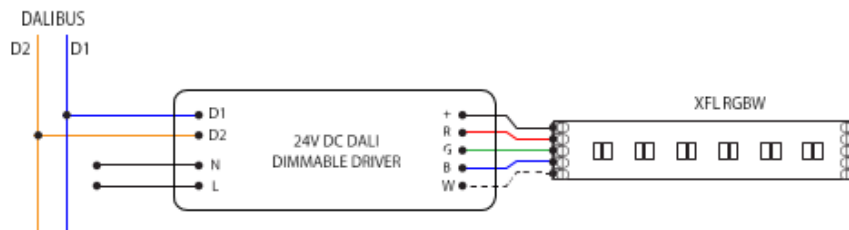


--- Local LAN Wifi Router

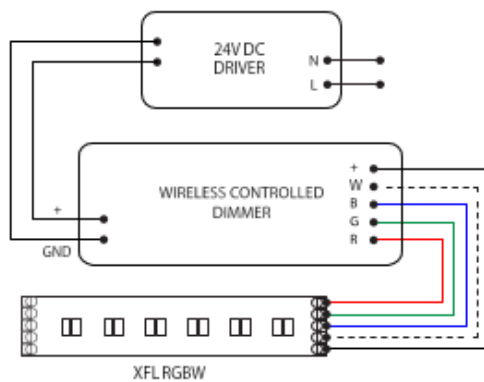
--- Connected via Bluetooth Mesh

WIRING DIAGRAMS

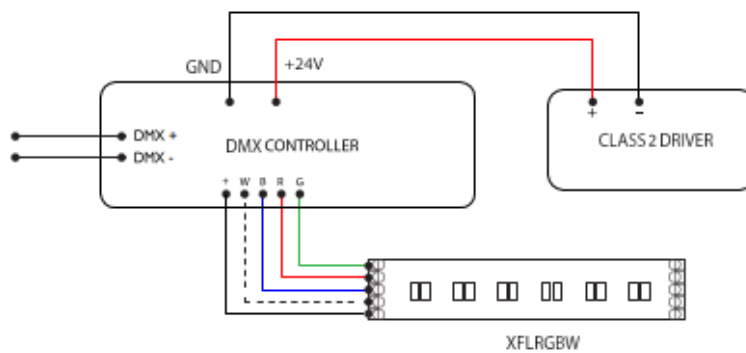
DALI Wiring Diagram



Wired + Wireless Option

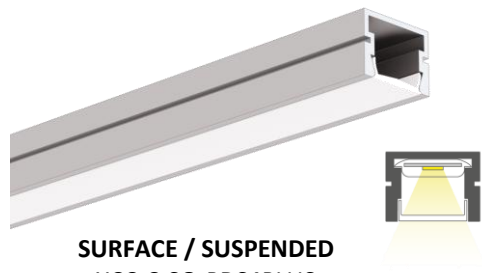


DMX Wiring Diagram



RECOMMENDED CHANNELS**SQUARE SERIES**

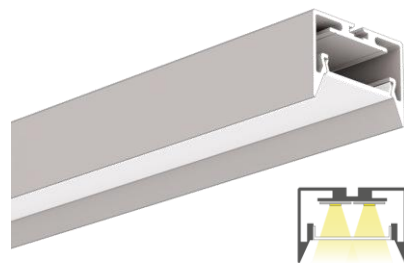
RECESSED
XCC-C-SQ-PDSNK



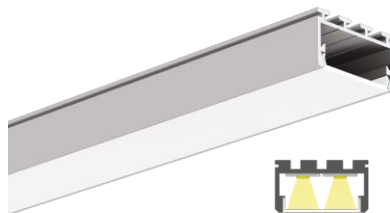
SURFACE / SUSPENDED
XCC-C-SQ-PDS4PLUS

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 RGBW			
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

3

**YEAR
WARRANTY**

Limited Product Warranty

What is Covered

Xicato warrants the XFL product against defects in materials and workmanship for 3 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.