



XFL Flexible Linear LED

Static White

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.



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Static White



Features

- Unmatched performance for CRI, R9, Fidelity and Gamut
- Premium ≤ 2 SDCM color consistency
- High density 240 LEDs/m
- 24V input, standard for simpler power and design
- Superior construction for higher reliability and heat management
- 10-year warranty

Spec Locks

| Spec Locks | Gold Plated PCB | CRI | R9 | Gamut | Fidelity | SDCM Steps | Max Run | Luminous Efficacy | Benefits |
|--------------|-----------------|-----|----|-------|----------|------------|---------|-------------------|---|
| Static White | | | | | | | | | Superior Construction, long lifespan, High concentration of LEDs/m Supported by Xicato Bluetooth® Mesh Control portfolio |

XFL SKU Builder / Ordering Part Number

The Xicato part number is built as follows: XFL-AA-BBCC-DDDEE-FFGG-HHHHH

| | | | | | | | | | | | | | |
|------------|----|------------|----|-----------|-------------|----|------------|-----------|----|-----------|-----------|----|--------------------|
| XFL | -- | SW | -- | 24 | 1.0 | -- | 240 | 22 | -- | 22 | 95 | -- | SP005 |
| XFL | -- | SW | -- | 24 | | -- | 240 | 22 | -- | | 95 | -- | |
| Product | | Collection | | Voltage | Watts/foot* | | LEDs/meter | IP Rating | | CCT | CRI | | Spool Length (m)** |
| | | | | | 1.0 | | | | | 22 = 2200 | | | 5 |
| | | | | | 3.0 | | | | | 25 = 2500 | | | 10 |
| | | | | | 4.4 | | | | | 27 = 2700 | | | 30 |
| | | | | | 5.0 | | | | | 30 = 3000 | | | |
| | | | | | 6.6 | | | | | 35 = 3500 | | | |
| | | | | | | | | | | 41 = 4100 | | | |

* 1 Watt/foot = 3.28 Watts/meter

** 5m Spool Length = 16.4 feet

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 | 25mm (0.98") | 240 | 10mm (0.39") | 5 (16.4) 10 (32.8) 30 (98.4) | -20°C to 60°C | -20~ +70°C |

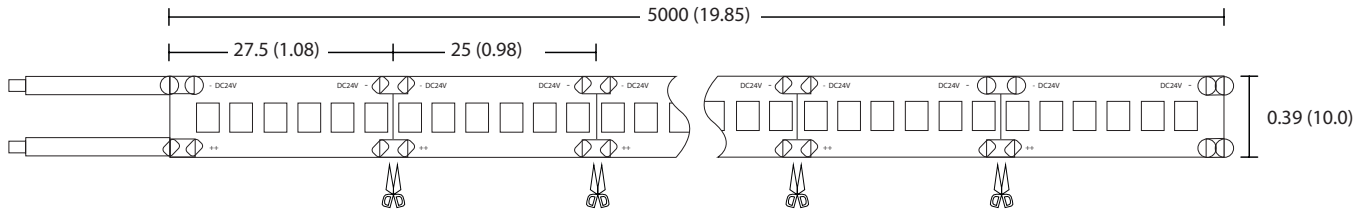
Typical Performance

| Part Number | CCT (K) | Power (W/m) | Power (W/ft) | Flux (lm/m) | Flux (lm/ft) | Eff (lm/W) | Max run length (m) | Max run length (ft) |
|-------------------------|---------|-------------|--------------|-------------|--------------|------------|--------------------|---------------------|
| XFL-SW-241.0-24022-2295 | 2200 | 3.28 | 1.0 | 329 | 100 | 100 | 12 | 39.4 |
| XFL-SW-241.0-24022-2595 | 2500 | 3.28 | 1.0 | 340 | 104 | 104 | 12 | 39.4 |
| XFL-SW-241.0-24022-2795 | 2700 | 3.28 | 1.0 | 389 | 119 | 119 | 12 | 39.4 |
| XFL-SW-241.0-24022-3095 | 3000 | 3.28 | 1.0 | 401 | 122 | 122 | 12 | 39.4 |
| XFL-SW-241.0-24022-3595 | 3500 | 3.28 | 1.0 | 418 | 127 | 127 | 12 | 39.4 |
| XFL-SW-241.0-24022-4195 | 4100 | 3.28 | 1.0 | 430 | 131 | 131 | 12 | 39.4 |
| XFL-SW-243.0-24022-2295 | 2200 | 9.84 | 3.0 | 795 | 242 | 81 | 7.5 | 24.6 |
| XFL-SW-243.0-24022-2595 | 2500 | 9.84 | 3.0 | 836 | 255 | 85 | 7.5 | 24.6 |
| XFL-SW-243.0-24022-2795 | 2700 | 9.84 | 3.0 | 951 | 290 | 97 | 7.5 | 24.6 |
| XFL-SW-243.0-24022-3095 | 3000 | 9.84 | 3.0 | 960 | 293 | 98 | 7.5 | 24.6 |
| XFL-SW-243.0-24022-3595 | 3500 | 9.84 | 3.0 | 973 | 297 | 99 | 7.5 | 24.6 |
| XFL-SW-243.0-24022-4195 | 4100 | 9.84 | 3.0 | 997 | 304 | 101 | 7.5 | 24.6 |
| XFL-SW-244.4-24022-2295 | 2200 | 14.43 | 4.4 | 930 | 284 | 64 | 6.5 | 21.3 |
| XFL-SW-244.4-24022-2595 | 2500 | 14.43 | 4.4 | 1030 | 314 | 71 | 6.5 | 21.3 |
| XFL-SW-244.4-24022-2795 | 2700 | 14.43 | 4.4 | 1253 | 382 | 87 | 6.5 | 21.3 |
| XFL-SW-244.4-24022-3095 | 3000 | 14.43 | 4.4 | 1351 | 412 | 94 | 6.5 | 21.3 |
| XFL-SW-244.4-24022-3595 | 3500 | 14.43 | 4.4 | 1405 | 428 | 97 | 6.5 | 21.3 |
| XFL-SW-244.4-24022-4195 | 4100 | 14.43 | 4.4 | 1522 | 464 | 105 | 6.5 | 21.3 |
| XFL-SW-245.0-24022-2295 | 2200 | 16.40 | 5.0 | 1260 | 384 | 73 | 6 | 19.7 |
| XFL-SW-245.0-24022-2595 | 2500 | 16.40 | 5.0 | 1346 | 410 | 77 | 6 | 19.7 |
| XFL-SW-245.0-24022-2795 | 2700 | 16.40 | 5.0 | 1399 | 427 | 91 | 6 | 19.7 |
| XFL-SW-245.0-24022-3095 | 3000 | 16.40 | 5.0 | 1537 | 469 | 86 | 6 | 19.7 |
| XFL-SW-245.0-24022-3595 | 3500 | 16.40 | 5.0 | 1613 | 492 | 88 | 6 | 19.7 |
| XFL-SW-245.0-24022-4195 | 4100 | 16.40 | 5.0 | 1687 | 514 | 96 | 6 | 19.7 |
| XFL-SW-246.0-24022-2295 | 2200 | 19.68 | 6.0 | 1536 | 468 | 74 | 5 | 16.4 |
| XFL-SW-246.0-24022-2595 | 2500 | 19.68 | 6.0 | 1665 | 508 | 79 | 5 | 16.4 |
| XFL-SW-246.0-24022-2795 | 2700 | 19.68 | 6.0 | 1797 | 548 | 92 | 5 | 16.4 |
| XFL-SW-246.0-24022-3095 | 3000 | 19.68 | 6.0 | 1812 | 552 | 88 | 5 | 16.4 |
| XFL-SW-246.0-24022-3595 | 3500 | 19.68 | 6.0 | 1827 | 557 | 86 | 5 | 16.4 |
| XFL-SW-246.0-24022-4195 | 4100 | 19.68 | 6.0 | 2057 | 627 | 96 | 5 | 16.4 |

Note:

1. Test environment temperature: 25±2°C.
2. The above data represents typical values. The actual data of each single product may differ from the typical values.

Profile Drawings



Units: mm (inches)

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.

Aluminum Channels

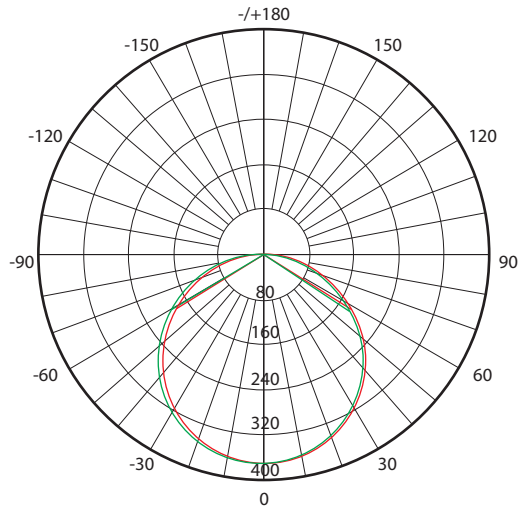
For a complete list of commonly used profiles with this product, please visit xicato.com/xfl.

Installation

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

Visit xicato.com/support to download XFL Flexible Linear LED Installation Instructions for Dry Location and Wet Location Linear Lighting.

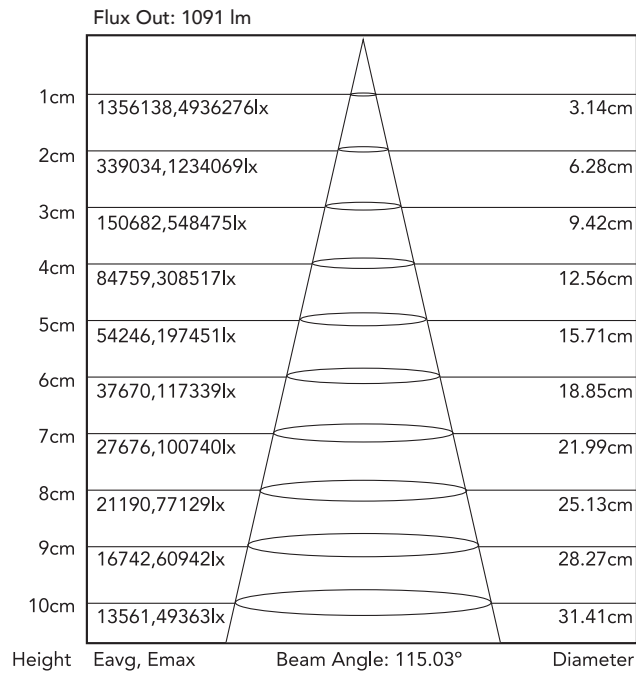
Luminous Intensity Distribution Diagram



AVERAGE BEAM ANGLE(50%): 115.2°

Unit: cd
 — C0/180,115.0°
 — C90/270,115.3°

Average Illumination



Note:

Above 2 figures generated by measuring 3000K sample.

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 is a complex process, and minor changes 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 Φ_{use} | Efficiency η | SLR Energy Efficiency ^{1,2} $\eta_{TM} = \eta \times F_{TM}$ | SLR Energy Efficiency Class ³ | Power Consumption 50cm- P_{on} | Useful Flux 50cm- ϕ_{use} | Max Allowed Power ^{4,5} 50cm- P_{onmax} | EPREL Registration Number |
|-------------------------|--------------------|----------------------------|--------------------------|-------------------|--|--|----------------------------------|--------------------------------|---|---------------------------|
| | V | W/m | lm/m | lm/W | lm/W | | W | lm | W | |
| XFL-SW-241.0-24022-2295 | 24 | 3.28 | 329 | 100 | 109 | F | 1.64 | 165 | 3.92 | 1222658 |
| XFL-SW-241.0-24022-2595 | 24 | 3.28 | 340 | 104 | 113 | E | 1.64 | 170 | 3.98 | 1222659 |
| XFL-SW-241.0-24022-2795 | 24 | 3.28 | 389 | 119 | 129 | E | 1.64 | 195 | 4.29 | 1222660 |
| XFL-SW-241.0-24022-3095 | 24 | 3.28 | 401 | 122 | 133 | E | 1.64 | 200 | 4.36 | 1222661 |
| XFL-SW-241.0-24022-3595 | 24 | 3.28 | 418 | 127 | 139 | D | 1.64 | 209 | 4.46 | 1222662 |
| XFL-SW-241.0-24022-4195 | 24 | 3.28 | 430 | 131 | 143 | D | 1.64 | 215 | 4.54 | 1222663 |
| XFL-SW-243.0-24022-2295 | 24 | 9.84 | 795 | 81 | 88 | F | 4.92 | 398 | 6.79 | 1222664 |

SLR Ecodesign & Energy Labelling

| LED Light Source | Forward Voltage DC | Power Consumption P_{on} | Useful Flux Φ_{use} | Efficiency η | SLR Energy Efficiency ^{1,2} $\eta_{TM} = \eta \times F_{TM}$ | SLR Energy Efficiency Class ³ | Power Consumption 50cm- P_{on} | Useful Flux 50cm- Φ_{use} | Max Allowed Power ^{4,5} 50cm- P_{onmax} | EPREL Registration Number |
|-------------------------|--------------------|----------------------------|--------------------------|-------------------|--|--|----------------------------------|--------------------------------|---|---------------------------|
| | V | W/m | lm/m | lm/W | lm/W | | W | lm | W | |
| XFL-SW-243.0-24022-2595 | 24 | 9.84 | 836 | 85 | 92 | F | 4.92 | 418 | 7.04 | 1222665 |
| XFL-SW-243.0-24022-2795 | 24 | 9.84 | 951 | 97 | 105 | F | 4.92 | 475 | 7.75 | 1222666 |
| XFL-SW-243.0-24022-3095 | 24 | 9.84 | 960 | 98 | 106 | F | 4.92 | 480 | 7.8 | 1222667 |
| XFL-SW-243.0-24022-3595 | 24 | 9.84 | 973 | 99 | 108 | F | 4.92 | 487 | 7.89 | 1222668 |
| XFL-SW-243.0-24022-4195 | 24 | 9.84 | 997 | 101 | 110 | E | 4.92 | 499 | 8.04 | 1222669 |
| XFL-SW-244.4-24022-2295 | 24 | 14.43 | 930 | 64 | 70 | G | 7.22 | 465 | 7.62 | 1222670 |
| XFL-SW-244.4-24022-2595 | 24 | 14.43 | 1030 | 71 | 78 | G | 7.22 | 515 | 8.24 | 1222671 |
| XFL-SW-244.4-24022-2795 | 24 | 14.43 | 1253 | 87 | 95 | F | 7.22 | 627 | 9.61 | 1222672 |
| XFL-SW-244.4-24022-3095 | 24 | 14.43 | 1351 | 94 | 102 | F | 7.22 | 676 | 10.22 | 1222673 |
| XFL-SW-244.4-24022-3595 | 24 | 14.43 | 1405 | 97 | 106 | F | 7.22 | 702 | 10.55 | 1222674 |
| XFL-SW-244.4-24022-4195 | 24 | 14.43 | 1522 | 106 | 115 | E | 7.22 | 761 | 11.27 | 1222675 |
| XFL-SW-245.0-24022-2295 | 24 | 16.4 | 1260 | 77 | 84 | G | 8.2 | 630 | 9.66 | 1222676 |
| XFL-SW-245.0-24022-2595 | 24 | 16.4 | 1346 | 82 | 89 | F | 8.2 | 673 | 10.18 | 1222677 |
| XFL-SW-245.0-24022-2795 | 24 | 16.4 | 1399 | 85 | 93 | F | 8.2 | 700 | 10.51 | 1222678 |
| XFL-SW-245.0-24022-3095 | 24 | 16.4 | 1537 | 94 | 102 | F | 8.2 | 769 | 11.36 | 1222679 |
| XFL-SW-245.0-24022-3595 | 24 | 16.4 | 1613 | 98 | 107 | F | 8.2 | 806 | 11.83 | 1222680 |
| XFL-SW-245.0-24022-4195 | 24 | 16.4 | 1687 | 103 | 112 | E | 8.2 | 844 | 12.29 | 1222681 |
| XFL-SW-246.0-24022-2295 | 24 | 19.68 | 1536 | 78 | 85 | F | 9.84 | 768 | 11.36 | 1222682 |
| XFL-SW-246.0-24022-2595 | 24 | 19.68 | 1665 | 85 | 92 | F | 9.84 | 833 | 12.16 | 1222683 |
| XFL-SW-246.0-24022-2795 | 24 | 19.68 | 1797 | 91 | 99 | F | 9.84 | 898 | 12.96 | 1222684 |
| XFL-SW-246.0-24022-3095 | 24 | 19.68 | 1812 | 92 | 100 | F | 9.84 | 906 | 13.06 | 1222685 |
| XFL-SW-246.0-24022-3595 | 24 | 19.68 | 1827 | 93 | 101 | F | 9.84 | 913 | 13.15 | 1222686 |
| XFL-SW-246.0-24022-4195 | 24 | 19.68 | 2057 | 105 | 114 | E | 9.84 | 1029 | 14.57 | 1222687 |

Note:

1. Per Annex I, item 2 of Directive 2009/125/EC, XFL SW 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

CE IEC 62031:2008

UL UL 8750

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.

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