# XFL Flexible Linear LED
## High Density

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.
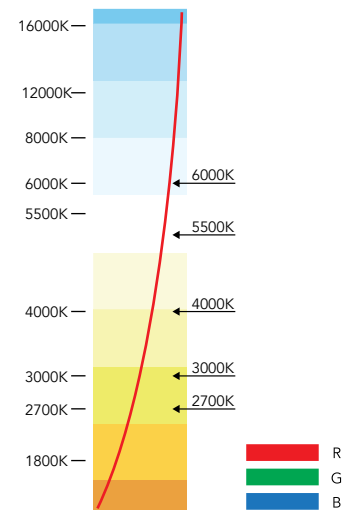
**xicato.com**

**WET**
LOCATION

**DC**
ONLY

# XFL Flexible Linear LED
# High Density

## Features

- Unmatched performance for CRI, R9, Fidelity and Gamut
- Premium ≤ 2 SDCM color consistency
- High Density 700 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 |
|---|---|---|---|---|---|---|---|---|---|
| High-Density | | 🔒 | 🔒 | 🔒 | 🔒 | 🔒 | 🔒 | 🔒 | Superior Construction, long lifespan, high concentration of LEDs/m<br><br>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 -- | HD -- | 24 | 3.0 -- | 700 | 67 -- | 22 | 95 -- | SP005 |
|---|---|---|---|---|---|---|---|---|
| XFL -- | HD -- | 24 | | 700 | 67 -- | | 95 -- | |
| Product | Collection | Voltage | Watts/foot* | LEDs/meter | IP Rating | CCT | CRI | Spool Length (m)** |

| Watts/foot* |
|---|
| 3.0 |
| 4.4 |
| 5.0 |
| 6.6 |

| CCT |
|---|
| 22 = 2200 |
| 25 = 2500 |
| 27 = 2700 |
| 30 = 3000 |
| 35 = 3500 |
| 40 = 4000 |
| 50 = 5000 |
| 60 = 6000 |

| Spool Length (m)** |
|---|
| 5 |
| 10 |

* 1 Watt/foot = 3.28 Watts/meter

** 5m Spool Length = 16.4 feet

## Specifications

## Common properties across all SKUs

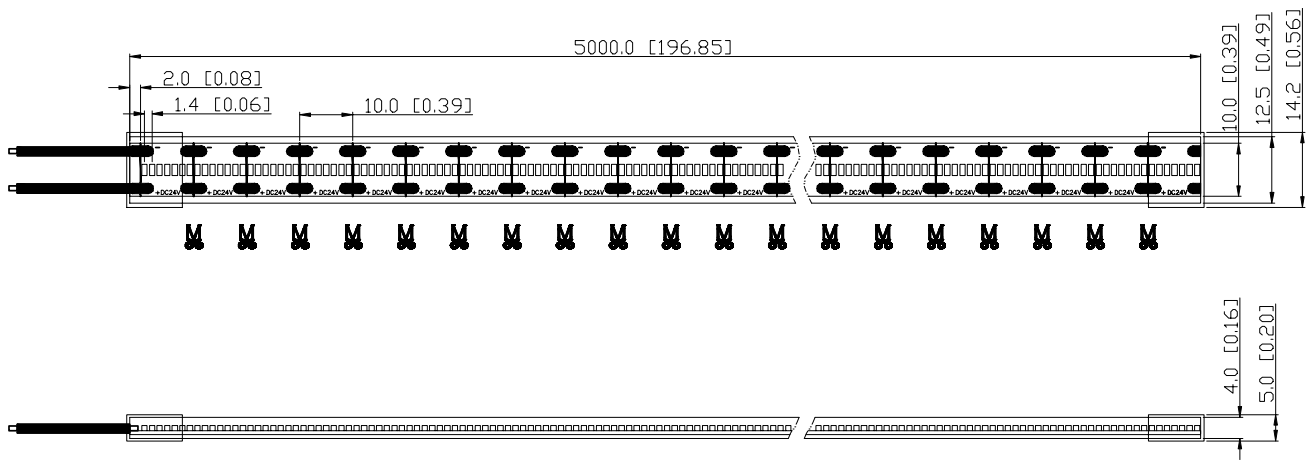| Color | Beam Angle | CRI | Voltage | IP Rating | Minimum Cuttable Length | LEDs/m | Profile | Standard Spool Length m (ft) | Operating Temperature | Storage Temperature |
|---|---|---|---|---|---|---|---|---|---|---|
| W | 120° | 95 | 24VDC | 65 | 10mm (0.39") | 700 | 10mm (0.39") | 5 (16.4) 10 (32.8) | -20°C to 60°C | -20~ +70°C |

| Model No. | CCT | Efficacy (lm/W) | Flux lm/m (lm/ft) | Watts/m (W/ft) | Max Run Length m (ft) |
|---|---|---|---|---|---|
| XFL-HD-243.0-70067-2295 | 2200 | 60 | 182 (598) | 9.84 (3) | 4.5 (14.8) |
| XFL-HD-243.0-70067-2595 | 2500 | 57 | 173 (568) | | |
| XFL-HD-243.0-70067-2795 | 2700 | 58 | 174 (574) | | |
| XFL-HD-243.0-70067-3095 | 3000 | 63 | 191 (629) | | |
| XFL-HD-243.0-70067-3595 | 3500 | 64 | 194 (638) | | |
| XFL-HD-243.0-70067-4095 | 4000 | 65 | 196 (646) | | |
| XFL-HD-243.0-70067-5095 | 5000 | 65 | 196 (646) | | |
| XFL-HD-244.4-70067-2295 | 2200 | 61 | 271 (892) | 14.43 (4.4) | 3.5 (11.5) |
| XFL-HD-244.4-70067-2595 | 2500 | 62 | 275 (905) | | |
| XFL-HD-244.4-70067-2795 | 2700 | 63 | 278 (913) | | |
| XFL-HD-244.4-70067-3095 | 3000 | 69 | 305 (1001) | | |
| XFL-HD-244.4-70067-3595 | 3500 | 70 | 309 (1014) | | |
| XFL-HD-244,4-70067-4095 | 4000 | 71 | 313 (1029) | | |
| XFL-HD-244.4-70067-5095 | 5000 | 71 | 313 (1029) | | |
| XFL-HD-245.0-70067-2295 | 2200 | 60 | 302 (992) | 16.4 (5) | 3 (9.8) |
| XFL-HD-245.0-70067-2595 | 2500 | 61 | 306 (1005) | | |
| XFL-HD-245.0-70067-2795 | 2700 | 62 | 309 (1017) | | |
| XFL-HD-245.0-70067-3095 | 3000 | 68 | 339 (1115) | | |
| XFL-HD-245.0-70067-3595 | 3500 | 68 | 344 (1130) | | |
| XFL-HD-245.0-70067-4095 | 4000 | 69 | 349 (1145) | | |
| XFL-HD-245.0-70067-5095 | 5000 | 69 | 349 (1145) | | |
| XFL-HD-246.6-70067-2295 | 2200 | 60 | 399 (1312) | 21.65 (6.6) | 2.5 (8.2) |
| XFL-HD-246.6-70067-2595 | 2500 | 61 | 405 (1331) | | |
| XFL-HD-246.6-70067-2795 | 2700 | 62 | 410 (1347) | | |
| XFL-HD-246.6-70067-3095 | 3000 | 68 | 449 (1474) | | |
| XFL-HD-246.6-70067-3595 | 3500 | 69 | 455 (1496) | | |
| XFL-HD-246.6-70067-4095 | 4000 | 70 | 462 (1516) | | |
| XFL-HD-246.6-70067-5095 | 5000 | 70 | 462 (1516) | | |

**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: Rmin = 20mm



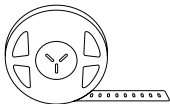## Xicato Controls and Integration

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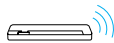


Xicato App/Software    Remote Interface

24V ▶ Xicato Flexible Linear – – – Smart/Connected Driver – – – – Xicato Gateway – – – – Local LAN Wifi Router

--- Connected via Bluetooth Mesh

## Connectors

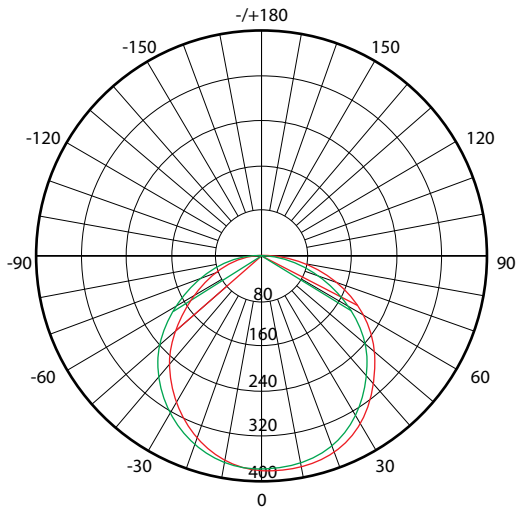For a complete list of connectors, please visit xicato.com/xfl.

## Aluminum Channels

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

## Installation

Install using mounting kit. Mounting kit is sold separately.

Visit xicato.com/support to download XFL Flexible Linear LED Installation Instructions for Wet Location Linear Lighting.
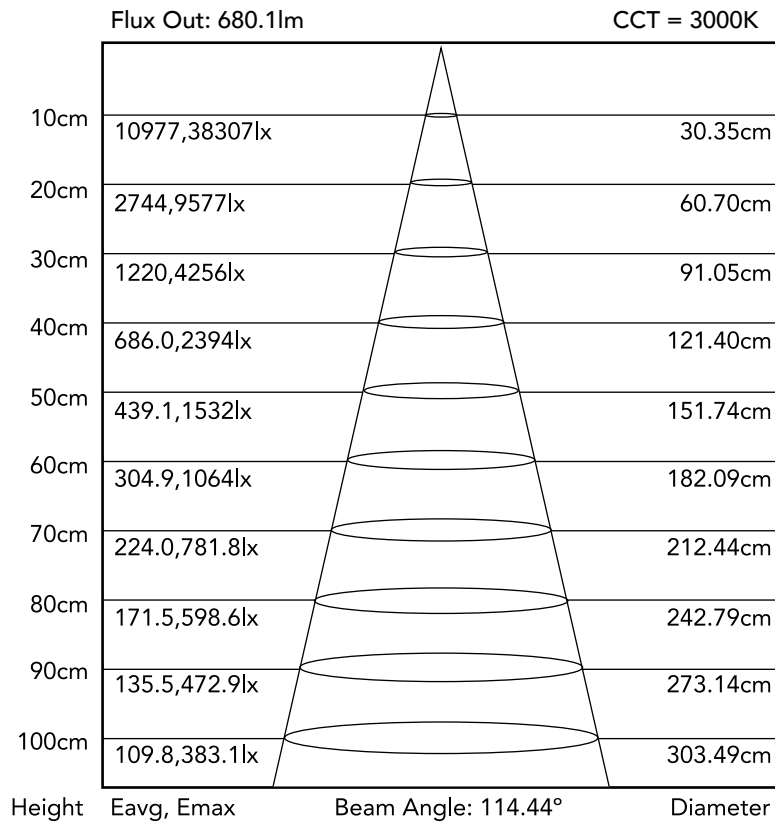
# Luminous Intensity Distribution Diagram



AVERAGE BEAM ANGLE(50%): 114.4°

Unit: cd
—— C0/180,113.2°
—— C90/270,115.6°

# Average Illumination

Flux Out: 680.1lm                           CCT = 3000K

| Height | Eavg, Emax | Beam Angle: 114.44° | Diameter |
|--------|-----------|---------------------|----------|
| 10cm | 10977,38307lx | | 30.35cm |
| 20cm | 2744,9577lx | | 60.70cm |
| 30cm | 1220,4256lx | | 91.05cm |
| 40cm | 686.0,2394lx | | 121.40cm |
| 50cm | 439.1,1532lx | | 151.74cm |
| 60cm | 304.9,1064lx | | 182.09cm |
| 70cm | 224.0,781.8lx | | 212.44cm |
| 80cm | 171.5,598.6lx | | 242.79cm |
| 90cm | 135.5,472.9lx | | 273.14cm |
| 100cm | 109.8,383.1lx | | 303.49cm |

Note:
The above two figures are tested with the sample at color temperature 3000K.

## 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.

## Customer 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

| | |
|---|---|
| CE | IEC 62031:2008 |
| UL | UL 8750 Cert E499492 |
| Model | XFL-UD-24-67-X |
| Type | XFL-HD-24aa-bb67-Xcc-dd |

### Warranty

| | |
|---|---|
| Warranty Duration | 10 year |

RoHS COMPLIANT

# XiCato ®

**Xicato Global Headquarters**

102 Cooper Court
Los Gatos, CA 95032

**Contact Us**

Tel: +1 866 223 8395
info@xicato.com

For the most up-to-date data sheet, please visit xicato.com/support.