NANORail95

0.95" x 0.375" Low-Profile Narrow Linear LED Fixture

XICO®
with **SmartBeam**®

Remote Driver

1.4"
Scale
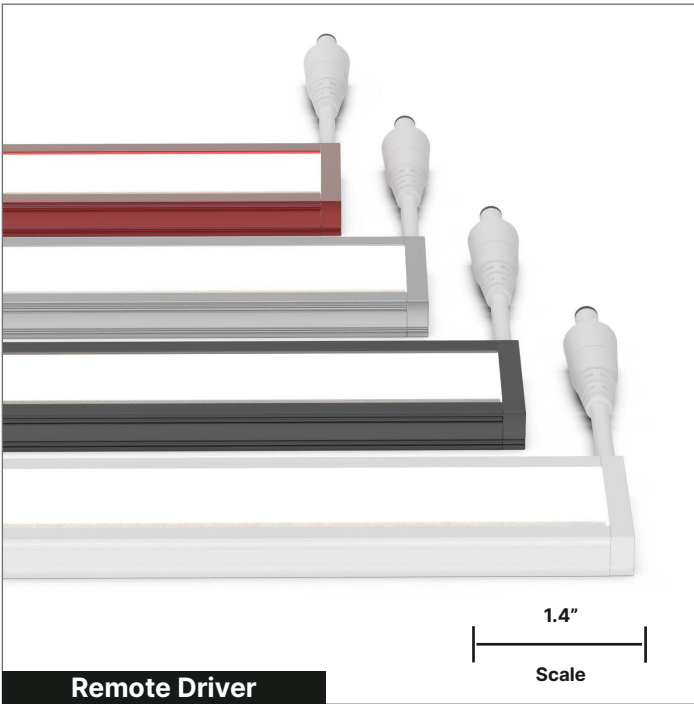
Features & Benefits

Low Profile (3/8") + Exceptional Performance
0.95" x 0.375" form delivering up to 1,000 lm/ft, at >150 lm/W

Wide Range of LED Selections
Static White, Tunable White, Dim-to-Warm, and RGBW

Designed for Lighting Designers
Wide choice of beam distributions, 80/90/95+ CRI, 2200K to 5000K CCT, and 0-10V, DALI, DMX, and TRIAC dimming

Patented Innovations
SmartBeam® technology by Fusion Optix®

Expanded Range of Optical Components
Flatlens® and Cosine® optics plus EdgeTek® waveguides

Committed to Sustainability
Declare Listed and Red Free List materials

Compliance
UL Listed, Dry and Damp Locations

5-Year Warranty
Standard 5-year warranty, 50,000 hours

Designed & built in Boston, BABAA Compliant

BABAAct
Build America Buy America Act

UL LISTED

RoHS compliant

mindful MATERIALS

Designed & Built in
BOSTON

Declare

Red List Free

FIXTURE ORDERING

Project Name

Fixture Type

1) FIXTURE DESIGN

PRODUCT	MOUNTING TYPE	LENGTH	DAISY CHAIN	COLOR & FINISH
NRA95				

0.95" Low-Profile Linear LED Rail

NMH No Mounting Hardware	**1FT** 1FT Nominal	**NDC** No Daisy Chain	**MWH** Matte White (RAL9003)
SMR Surface Mount Rail	**2FT** 2FT Nominal	**YDC** Yes Daisy Chain	**MBK** Matte Black (RAL9005)
SMC Surface Mount Clip	**4FT** 4FT Nominal		**MGR** Matte Gray (RAL7001)
SMM Surface Mount Magnet	**6FT** 6FT Nominal		
	8FT 8FT Nominal		**CAE** Clear Anodized Effect
	X_ Specify X', Y" [Ask Factory]		**RAL_** Specify RAL# [Ask Factory]

2) LED LIGHT ENGINE

CRI	CCT	OPTIC / BEAM DISTRIBUTION	LUMEN OUTPUT
S80 Std. 80 CRI	**22** 2200K		**25** 250 lm/ft
S90 Std. 90 CRI	**27** 2700K	**FlatLens Optics**	**35** 350 lm/ft
HE80 High-Eff. 80 CRI	**30** 3000K	**LLAM** Lambertian (Diffuse)	**50** 500 lm/ft
HE90 High-Eff. 90 CRI	**35** 3500K		**75** 750 lm/ft
HD95 High-Def. 95 CRI	**40** 4000K	**EdgeTek Optics**	**100** 1,000 lm/ft
SUN Full SunLike	**50** 5000K	**ELAM** Lambertian (Diffuse)	
SBIOS Static BIOS	**3022D** 3000K to 2200K Dim-to-Warm	**EA6040** Asymmetric 60° at 40° Tilt	**X_** Specify lm/ft [Ask Factory]
DBIOS Dynamic BIOS	**3527D** 3500K to 2700K Dim-to-Warm	**EA4070** Asymmetric 40° at 70° Tilt	
TBIOS Tunable White BIOS		**Cosine Optics**	
RGBW Red, Green, Blue, White		**CA4560** Asymmetric 45° at 60° Tilt	
		CA6040 Asymmetric 60° at 40° Tilt	

3) DRIVER POWER & CONTROLS

LINE VOLTAGE (AC)	REMOTE DRIVER (POWER)	EMERGENCY BACKUP	REMOTE DRIVER BOX[1]	CONTROL SYSTEM[3]
120 120V	**FDND** Factory Non-Dimming	**NN** Not Needed	**NN** Not Needed	**NN** Not Needed
277 277V	**FD01** Factory 0-10V 1% Dim	**EMC** Emergency Circuit	**RLDB**[2] Remote Linear Driver Box (driver included by default)	**LUT** Lutron
UNV UNV	**FD10** Factory 0-10V 10% Dim	**EMB** Emergency Battery (10 W — Remote)		**COO** Cooper
	FDDA Factory DALI 0.1% Dim	**X_** Specify Backup	**RX2D**[2] Optional Remote XBox2 Driver, Up to 2 Drivers	**CAS** Casambi
	FDDX Factory DMX Dim		**RX3D**[2] Optional Remote XBox3 Driver, Up to 3 Drivers	**X_** Specify Control System [Ask Factory]
	FDTR Factory TRIAC Dim		**RX5D**[2] Optional Remote XBox5 Driver, Up to 5 Drivers	
	LD01 Lutron Hi-Lume 1% Dim			
	LD05 Lutron 5-Series 5% Dim			
	ED00 eldoLED 0-10V 0.1% Dim			
	ED01 eldoLED 0-10V 1% Dim			
	EDDA eldoLED DALI 0.1% Dim			
	X_ Specify Driver [Ask Factory]			

Footnotes: [1] Remote distance is dependent on driver type, up to 100' (30.5 m). [2] Creates a clean and organized power solution for multiple fixture installations. [3] The control system and driver must be compatible.
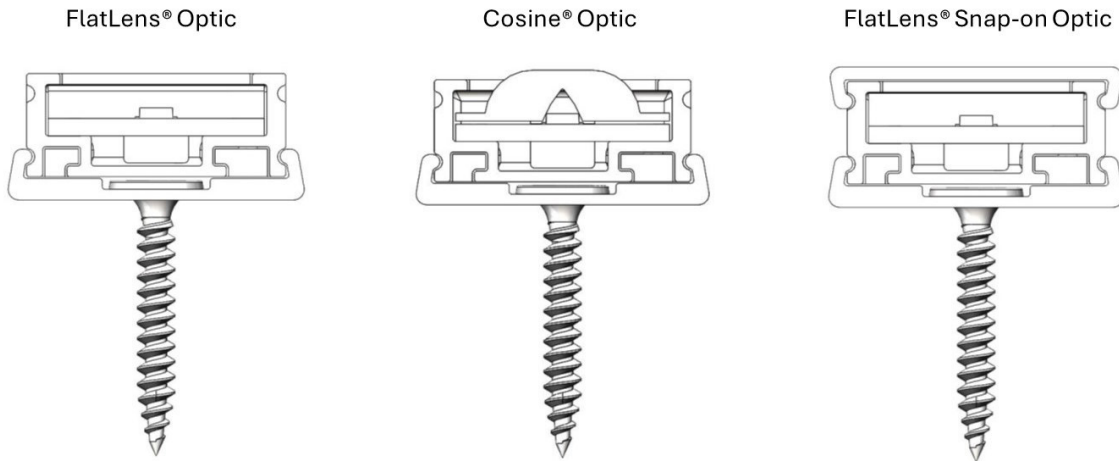
FIXTURE DESIGN

Dimensions

Cross Sections

FlatLens® Optic Cosine® Optic FlatLens® Snap-on Optic
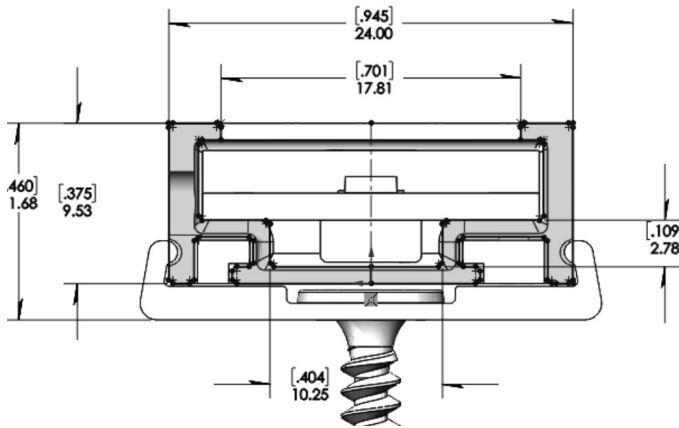
FIXTURE FINISHES

Fixture Finish

Housing Colors (Matte Finish)

White (RAL9003) Black (RAL9005) Gray (RAL7001) Clear Anodized Effect Custom RAL

Housing Material	6063-T5 extruded, recycled aluminum
Mounting Rail or Brackets	Continuous extruded mounting rail or discrete sheet metal brackets

To download BIM (Revit) Files, please click or scan the QR Code.

SMARTBEAM®

The Ultimate Control of Lighting Distributions

SmartBeam makes it easy to specify the exact light required for any architectural space. Available in every XICO product; it is now possible to create truly tailored and engaging lighting that transform spaces, improves visual comfort, and saves energy.

To learn more about our SmartBeam Technology, please click or scan the QR Code.
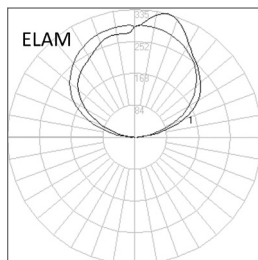
OPTIC	OPTICS - BEAM DISTRIBUTIONS								
	LAM	N45	BW60	BW120	FT150	A6040	A4560	A4070	
FlatLens® Optic* (L)	●	●	●						
Cosine® Optic* (C)				●	●	●	●		
EdgeTek® Optic* (E)						●		●	

*Patented Fusion Optix technology

PHOTOMETRICS

Static White

FlatLens® Optic

FlatLens® Optic

FLAM: Lambertian

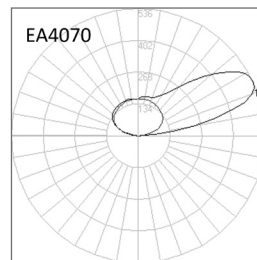|	
Length	24"
LED	HE90
CRI/CCT	90+/3500K
Lumens	1,000
lm/ft	500
Watts	6.8
W/ft	3.4
LPW	150
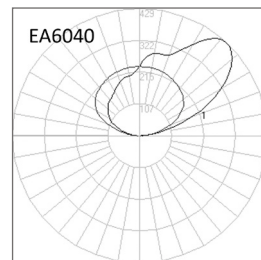
EdgeTek® Optic

EdgeTek® Optic

EA6040: Asymmetric 60° at 40° Tilt

Length	24"
LED	HE90
CRI/CCT	90+/3500K
Lumens	1,000
lm/ft	500
Watts	6.8
W/ft	3.4
LPW	150

EdgeTek® Optic

EA4070: Asymmetric 40° at 70° Tilt

Length	24"
LED	HE90
CRI/CCT	90+/3500K
Lumens	1,000
lm/ft	500
Watts	6.8
W/ft	3.4
LPW	150
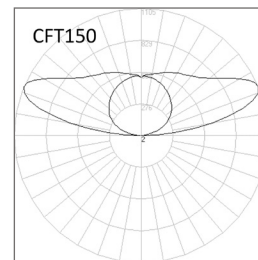
Cosine® Optic

Cosine® Optic

CFT150: Flattop 150°

Length	24"
LED	HE90
CRI/CCT	90+/3500K
Lumens	1,000
lm/ft	500
Watts	6.8
W/ft	3.4
LPW	150
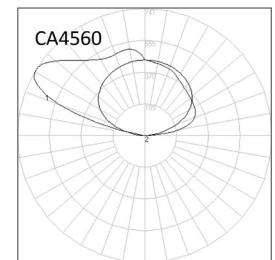
Cosine® Optic

CA4560: Asymmetric 45° at 60° Tilt

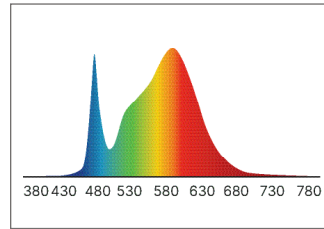|	
Length	24"
LED	HE90
CRI/CCT	90+/3500K
Lumens	1,000
lm/ft	500
Watts	6.8
W/ft	3.4
LPW	150

LED SELECTION GUIDE
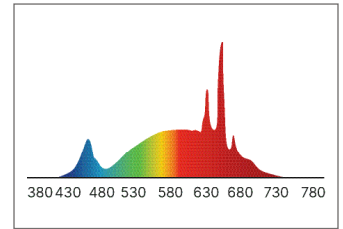
S80: Standard 80+ CRI
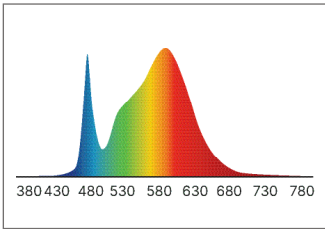
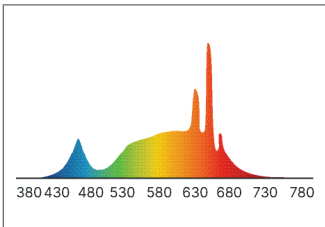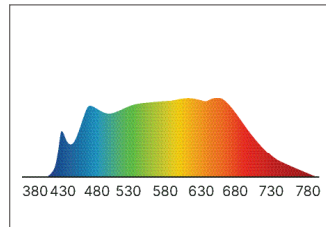
S90: Standard 90+ CRI
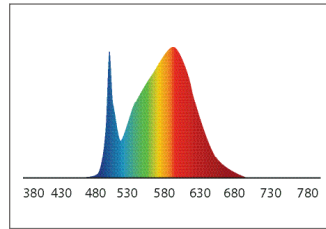
HE80: High-Efficiency 80+ CRI

HE90: High-Efficiency 90+ CRI

HD95: High-Definition 95+ CRI

SUN: Full Spectrum "SunLike"

HCD: Human Centric Day

Melanopic Sensitivity

HCN: Human Centric Night

Melanopic Sensitivity
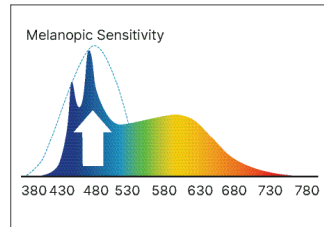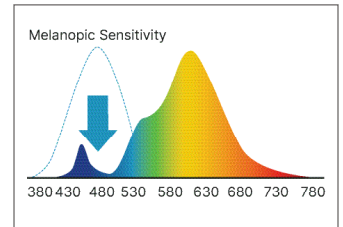
Static White Light (LED Light Engine Only)

CODE	DESCRIPTION	TYPICAL LED DATA							
		CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	M/P Ratio	LPW
S80	Standard 80 CRI	3500K	82.5	7.8	84	96.7	82.5	0.51	190
S90	Standard 90 CRI	3500K	91	54.3	89.3	98.9	89.2	0.55	175
HE80	High Efficiency 80 CRI	3500K	82.1	5.9	83	94.2	81.2	0.52	210
HE90	High Efficiency 90 CRI	3500K	92.2	90	90.7	103.8	92.1	0.56	190
HD95	High Definition 95 CRI	3500K	97.1	95	–	–	–	0.70	163
SUN	Full Spectrum SunLike®	3500K	95	85	–	–	–	–	130
HCD	Human Centric Day	4000K	83	95	–	–	–	0.92	155
HCN	Human Centric Night	2700K	80	–	–	–	–	0.44	134

LPW Efficacy Conversion Chart

CODE	CCT SELECTED							
	2200K	2700K	3000K	3500K	4000K	5000K	5700K	6500K
S80	–	0.91	0.96	1.00	1.04	1.11	1.11	1.11
S90	–	0.91	0.96	1.00	1.04	1.11	1.11	1.11
HE80	–	0.96	0.99	1.00	1.03	1.04	1.03	1.03
HE90	–	0.91	0.96	1.00	1.04	1.11	N/A	N/A
HD95	–	0.91	0.96	1.00	1.04	1.11	1.03	1.04
SUN95	–	0.90	0.92	1.00	1.01	1.07	1.04	1.05
HCD	–	N/A	0.96	1.00	1.04	1.04	1.04	1.04
HCN	–	0.87	0.96	1.00	1.04	N/A	N/A	N/A

BIOS TECHNOLOGY

Choosing Your BIOS Solution

bios

To learn more about BIOS Technology, please click or scan the QR Code.
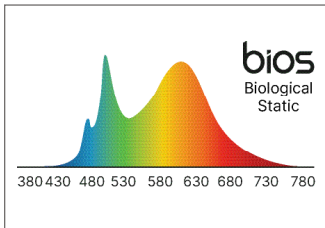
BIOS is offered in four Circadian LED Solutions with BIOS SkyBlue Technology — Biological Static, Biological Dynamic, Biological Tunable, and Biological Dim-to-Warm. BIOS SkyBlue™ Technology includes a blue peak at 490nm that provides an effective daytime circadian signal using standard architectural color temperatures.
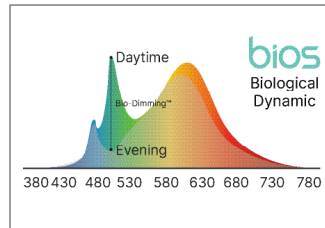
BIOS Static	BIOS Dynamic	BIOS Tunable	BIOS Dim-to-Warm
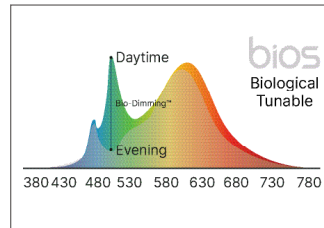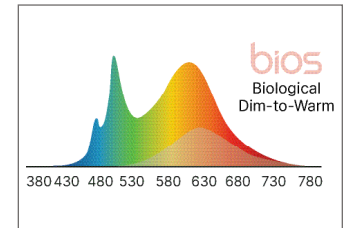
Daytime

No color change when dimmed

Spaces that operate during daytime hours — 7am and 7pm

Daytime & Evening

500K shift when dimmed

Spaces that operate overnight — after 7pm and before 7am

Daytime & Evening

Dims to 2700K

Spaces that operate with overnight shifts — after 7pm and before 7am

Daytime & Evening

Dims from cool to warm

Spaces where people sleep — after 7pm and before 7am

Circadian and Human Centric Light

		BIO-DIMMING MODULE TECHNOLOGY GUIDE					
CODE	DESCRIPTION	Driver	Driver Voltage	CCT	Requires BIO-Dimming Module	Lighting Control	BIOS SkyBlue (490nm)
SBIOS	BIOS Static	DIM1	0-10V Dimming to 1% Dim-to-Dark	No CCT Change	No	Intensity Dimming Control Only	Always Present
DBIOS	BIOS Dynamic	BIODIM1	0-10V Intensity Dimming to 1% Dim-to-Dark	500K Shift	Yes	Intensity Dimming & Spectrum Change Controlled Together	Removed with BIO-Dimming
DBIOS-2	BIOS Dynamic (Two Channel)	BIODIM1	0-10V Intensity Dimming to 1% Dim-to-Dark	500K Shift	No	Intensity Dimming & Spectrum Change Controlled Separately	Removed by Adjusting "Spectrum Channel"
TBIOS	BIOS Tunable	ATW / DTW	0-10V Control of Intensity & CCT on Separate 2 Channels / DALI Control of Intensity & CCT on Separate 2 Channels	Dims to 2700K	Yes	Intensity Dimming & Spectrum Change Controlled Together	Removed with BIO-Dimming
TBIOS-2	BIOS Tunable (Two Channel)	ATW / DTW		Dims to 2700K	No	Intensity Dimming & Spectrum Change Controlled Separately	Removed by Adjusting "Spectrum Channel"
DWBIOS	BIOS Dim-to-Warm	–	–	Dims to 2200K	Yes	Intensity Dimming & Spectrum Change Controlled Together	Removed with BIO-Dimming
DWBIOS-2	BIOS Dim-to-Warm (Two Channel)	–	–	Dims to 2200K	No	Intensity Dimming & Spectrum Change Controlled Separately	Removed by Adjusting "Spectrum Channel"
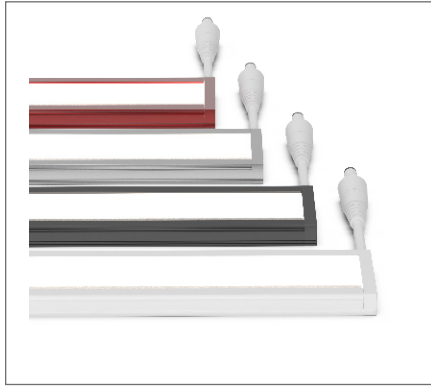
MICRORail 140 Fixture

Connectors (Static White)
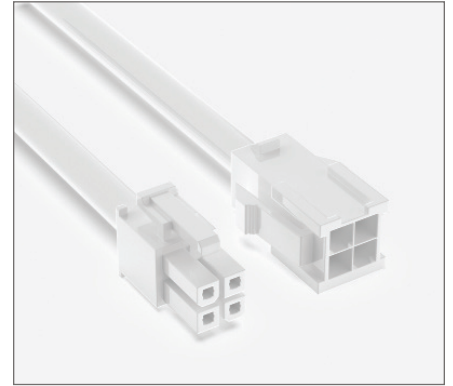
Connectors (Tunable White)

FIXTURE POWER & CONTROLS

Voltage

Input Voltage (DC)	Choice of 36V Constant Current or 24V Constant Voltage (CV)
LED Driver	Factory Selected Driver

Emergency Backup

Backup Types	Emergency Circuit, Emergency Battery (Remote), and other emergency backups are available
Wiring	Typically the Emergency Backup is wired to 48" sections
Power	10 W
Illumination Time	90 minutes

Power Cord
24" Cable Kit   Choice of white and black cord. Standard or specified lengths.

Connector (DC)
Connector Plug Options   Choice of stripped wire or factory connectors.


Control Systems	Remote Drivers (Sold Separately)
Other	Factory Non-Dimming, Factory 0-10V 1% Dim, Factory 0-10V 10% Dim, Factory DALI 0.1% Dim, Factory DMX Dim, Factory TRIAC Dim, eldoLED 0-10V 0.1% Dim, eldoLED 0-10V 1% Dim, eldoLED DALI 0.1% Dim, and other drivers are available, consult factory (not all integral)
Lutron	Hi-Lume 1% Dimming and 5-Series 5% Dimming
Cooper	Compatible driver
Casambi (wireless)	Compatible driver

STANDARDS & CERTIFICATIONS
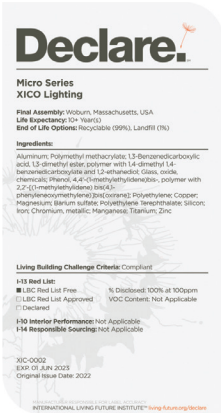
Declare Listed

Declare labels provide a quick and reliable way to make choices about the environmental footprint and safety of the product. Declare is internationally recognized and the labels can be found on the product, product packaging, or company website. Visit **xicoled.com** for Declare Listed details.

Red List Free

An industry standard certification for LED lighting products based on the International Living Future Institute (ILFI). These products only use materials based on the "Red List of Toxic Chemicals" (a list of chemicals and materials known to be hazardous to people and/or the Earth) that are safe, healthy, and environmentally sustainable.

Certifications

Compliance BAA & TAA compliant in-house manufacturing in Boston, MA with North American supply chain

Certifications

Sustainability Declare Listed and Red List Free

Packaging Low carbon, environmentally conscious packaging and shipping methods

Environmental Suitability

IP Rating Suitable for Dry and Damp Locations, indoor use only

Recyclable SmartOptics and all powder coated and anodized parts are fully recyclable at end of life

Reliability

Manufacturing All XICO products and associated optics and LED engines are assembled at our factory in Woburn, MA
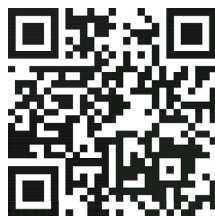
Quality Assurance Each product is engineered reliability and quality assurance tested

Warranty & Terms

5-YR Warranty

Business Terms

For details on our warranty and business terms, please click or scan the QR Code.