

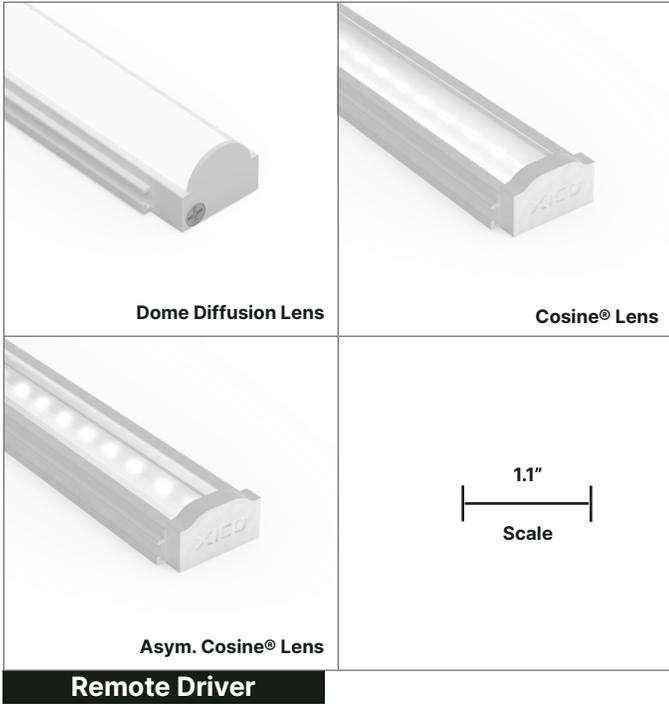
# MICRORail 110

Direct | Standard Lengths



Project Name \_\_\_\_\_

Fixture Type \_\_\_\_\_



## DESCRIPTION

### 0.5" x 1.1" Low-Profile Narrow Linear LED Fixture

The MICRORail with a choice of dome, Cosine® and a unique, patented, wide-angle and asymmetric Cosine® optic to deliver the perfect “batwing” and patented “flattop” style light distribution with an overall optical efficiency of over 90%—the industry’s best linear wide-angle luminaire. A low-profile surface mount LED rail featuring the patented Cosine® Optic delivers a uniform upright with various beam widths and a choice of beam widths, lumen outputs, color temperature, & color quality.

## FEATURES & BENEFITS

### Small Size + Exceptional Performance

0.5" x 1.1" form delivering up to 1,000 lm/ft, at >150 lm/W

### Wide Range of LED Selections

Static, Tunable White, and Dim-to-Warm

### Designed with Options

Wide choice of SmartOptic® lenses, beam distributions, 80/90/95+ CRI, 2700K to 6500K CCT, and 0-10V, DALI, DMX, and TRIAC dimming

### Patented Innovations

Fusion® Optix Inside with unique SmartBeam® capabilities

### Proprietary Optical Components

Provides excellent light distribution and high-transmission

### Committed to Sustainability

Declare Listed and Red Free List materials

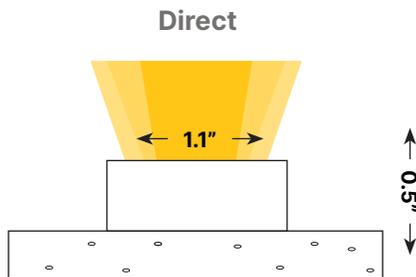
### Compliance

UL Listed, Dry and Damp Locations

### 5-Year Warranty

Standard 5-year warranty, 50,000 hours

## LIGHTING CONFIGURATIONS



Project Name \_\_\_\_\_ Fixture Type \_\_\_\_\_

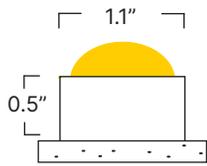
1) FIXTURE DESIGN				
PRODUCT	FIXTURE LENGTH	FINISH	END CAP STYLE	DAISY CHAIN
<b>MRA110</b> 1.1" Low-Profile linear LED Rail	<b>1</b> - 1 ft <b>2</b> - 2 ft <b>3</b> - 3 ft <b>4</b> - 4 ft <b>6</b> - 6 ft <b>8</b> - 8 ft <b>X_</b> - Specify Ft', In" (Ask Factory)	<b>Powder Coated</b> <b>PMW</b> - Matte White <b>PMB</b> - Matte Black <b>PMG</b> - Matte Gray <b>PRAL_</b> - Specify RAL #  <b>Anodized</b> <b>ACL</b> - Clear Anodized <b>ACU_</b> - Custom Anodized #	<b>E1</b> - Flat End Cap	<b>NDC</b> - No: Daisy Chain <b>YDC</b> - Yes: Daisy Chain
2) LED LIGHT ENGINE				
CRI	CCT	OPTIC (DIRECT ONLY)	DIRECT BEAM PATTERN	DIRECT OUTPUT
<b>80</b> - Std. 80 CRI <b>90</b> - Std. 90 CRI <b>95</b> - High-Def. 95 CRI <b>SUN</b> - Full SunLike	<b>27</b> - 2700K <b>30</b> - 3000K <b>35</b> - 3500K <b>40</b> - 4000K <b>XD</b> - Dim-to-Warm <b>XT</b> - Tunable <b>X_</b> - Specify CCT  Specify Dim-to-Warm and Tunable between 2700K-6500K.	<b>DO</b> - Dome Diffusion Optics  <b>CO</b> - Cosine Optics®  <b>AC</b> - Asymmetric Cosine®	<b>DLAM</b> - Lambertian  <b>DBW120</b> - Batwing 120° <b>DFT150</b> - FlatTop 150°  <b>DA6040</b> - Asym 60° at 40° Tilt <b>DA4560</b> - Asym 45° at 60° Tilt	<b>35</b> - 350 lm/ft <b>50</b> - 500 lm/ft <b>75</b> - 750 lm/ft <b>100</b> - 1,000 lm/ft <b>X_</b> - Specify lm/ft
3) FIXTURE POWER & CONTROLS				
LINE VOLTAGE (DC)	REMOTE DRIVER (POWER) <sup>1</sup>	Footnotes: <sup>1</sup> Standard driver box is included		
<b>UNV</b> - 120/277V <b>347</b> - 347V	<b>FDND</b> - Factory Non-Dimming <b>FD00</b> - Factory 0-10V 0.1% Dim <b>FD01</b> - Factory 0-10V 1% Dim <b>FD10</b> - Factory 0-10V 10% Dim <b>FDDA</b> - Factory DALI 0.1% Dim <b>FDDX</b> - Factory DMX Dim <b>FDTR</b> - Factory TRIAC Dim <b>LD01</b> - Lutron Hi-Lume 1% Dim <b>X_</b> - Specify Driver			
4) FIXTURE MOUNTING & CONNECTIONS				
MOUNTING TYPE	CONNECTOR (DC)			
<b>SMC</b> - Surface Mount Clip <b>SMM</b> - Surface Mount Magnet <b>TC1</b> - 9/16" Flat T-Bar Mount <b>TC2</b> - 9/16" Bolt Slot T-Bar Mount <b>TC3</b> - 15/16" Flat T-Bar Mount  TC1, TC2 and TC3 clips directly to grid t-bar.	<b>SW</b> - Strip Wire <b>FP</b> - Factory Plug			

<b>OPTIONAL</b>	
<b>EMERGENCY BACKUP</b>	<b>WIRELESS MODULE</b>
<p><b>EMC</b> - Emergency Circuit  <b>EMB</b> - Emergency Battery (10 W — Remote)  <b>X_</b> - Specify Backup</p> <p>Specify requirements at time of order.</p>	<p><b>WCN</b> - Wireless Communication Node (Connected to LED Driver In-Fixture or In-Driver Box)  <b>PIR</b> - Wireless Communication Node + PIR Sensor (Standard Lens for Low Bay &lt; 10')  <b>MW</b> - Wireless Communication Node + MW Sensor (Standard for Low Bay &lt; 10')  <b>X_</b> - Other – Specify Embedded Component or Specific Non-Standard Sensor Detection Range</p>

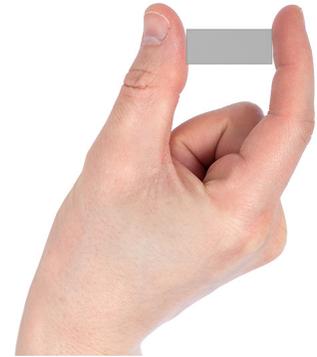
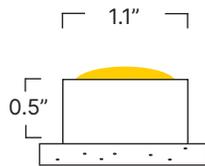
## DIMENSIONS & INSTALLATION

### Dimensions

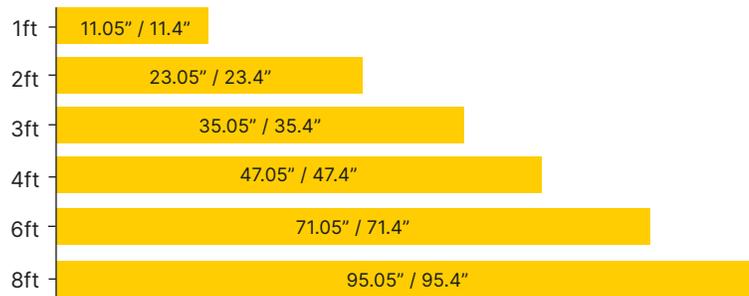
Dome Diffusion Lens



Cosine® Optic



### Standard Fixtures



Lens Length / Fixture Length

## FIXTURE MOUNTING

### Mounting Type

#### Surface Mount

Installs onto a surface. Available with a range of accessories, mounts and inserts that provide easy customization of visual appearance and performance enhancements.

#### T-Bar Mount

Installs into a ceiling grid system and mount on to, or replace, typical T-Bar elements. Available with a range of accessories, mounts and inserts that provide easy customization of visual appearance and performance enhancements.

#### Drywall Mount

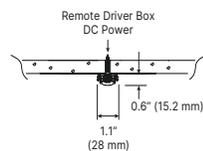
Installs onto any drywall or gypsum panel. Available with a range of accessories, mounts and inserts that provide easy customization of visual appearance and performance enhancements.

### Mounting Kit

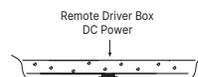
#### Surface Mounting Bracket

Stainless Steel

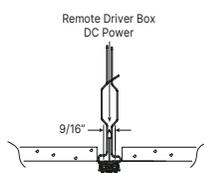
SMC - Surface Mount Clip



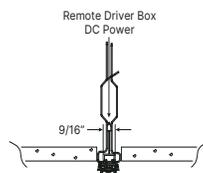
SMM - Surface Mount Magnet



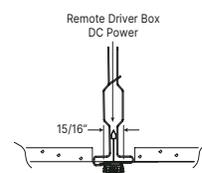
TC1 - 9/16" Flat T-Bar Mount Clip



TC2 - 9/16" Bolt Slot T-Bar Mount Clip



TC3 - 15/16" Flat T-Bar Mount Clip



## SMARTBEAM® TECHNOLOGY

### 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.



### Direct Optics Choices

DIRECT OPTICS	BEAM PATTERN				
	LAM	BW120	FT150	A6040	A4560
Dome Lens	■				
Cosine® Optic		■	■		
Asym Cosine® Optic				■	■

### LPW Efficacy Conversion Chart

CODE	CCT SELECTED							
	2200K	2700K	3000K	3500K	4000K	5000K	5700K	6500K
80	–	0.91	0.96	1.00	1.04	1.11	1.11	1.11
90	–	0.91	0.96	1.00	1.04	1.11	1.11	1.11
95	–	0.91	0.96	1.00	1.04	1.11	1.03	1.04
SUN	–	0.90	0.92	1.00	1.01	1.07	1.04	1.05

### LPW Performance

LM/W	DIRECT				
	DLAM	DA6040	DA4560	DFT150	DBW120
LM/W	150	150	150	150	150

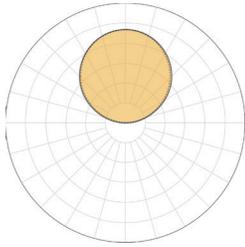
$$LM/W = \frac{\left( \begin{matrix} \text{DIRECT} \\ \text{LM/FT} \end{matrix} + \begin{matrix} \text{INDIRECT} \\ \text{LM/FT} \end{matrix} \right)}{\left( \begin{matrix} \text{DIRECT} \\ \text{W/FT} \end{matrix} + \begin{matrix} \text{INDIRECT} \\ \text{W/FT} \end{matrix} \right)}$$

## PHOTOMETRICS

48" Length, 80+/3500K CRI/CCT, 3,000 Lumens

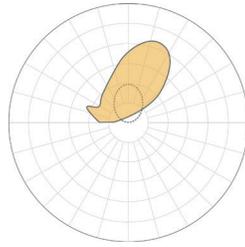
Static White Light

**DLAM:** Lambertian



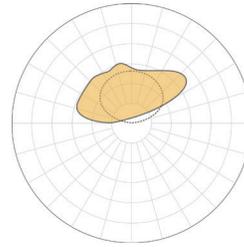
LM/FT	W/FT	LM/W
350	2.4	145.8
500	3.4	150
750	5.1	147.1
1000	6.8	147.1

**DA6040:** Asymmetric 60° at 40 Tilt°



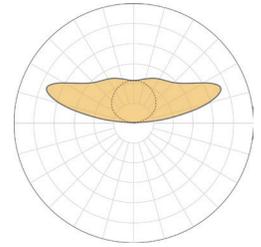
LM/FT	W/FT	LM/W
350	2.4	145.8
500	3.4	150
750	5.1	147.1
1000	6.8	147.1

**DA4560:** Asymmetric 45° at 60 Tilt°



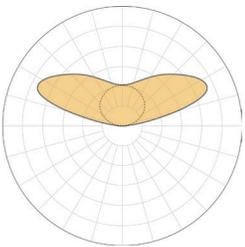
LM/FT	W/FT	LM/W
350	2.4	145.8
500	3.4	150
750	5.1	147.1
1000	6.8	147.1

**DFT150:** Flattop 150°



LM/FT	W/FT	LM/W
350	2.4	145.8
500	3.4	150
750	5.1	147.1
1000	6.8	147.1

**DBW120**

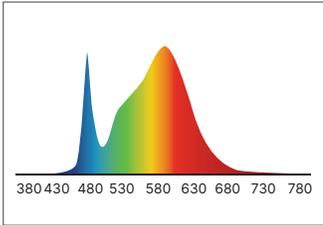


LM/FT	W/FT	LM/W
350	2.4	145.8
500	3.4	150
750	5.1	147.1
1000	6.8	147.1

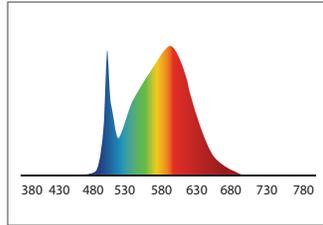
COMPATIBLE OPTIC		
<b>DOME</b>	<b>COSINE®</b>	<b>ASYM COSINE®</b>

LED OPTIONS

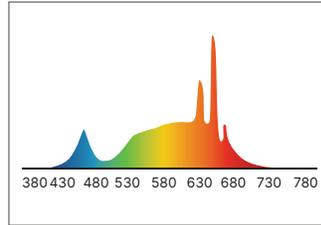
80: Standard 80+ CRI



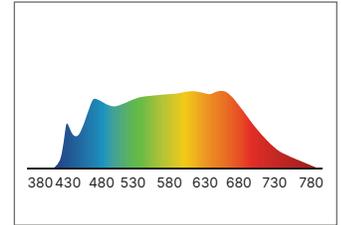
90: Standard 90+ CRI



95: High-Definition 95+CRI



SUN: Full Spectrum "SunLike"



CODE	DESCRIPTION	TYPICAL LED DATA							
		CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	M/P Ratio	LPW
80	Standard 80 CRI	3500K	82.5	7.8	84	96.7	82.5	0.51	190
90	Standard 90 CRI	3500K	91	54.3	89.3	98.9	89.2	0.55	175
95	High Definition 95 CRI	3500K	97.1	95	-	-	-	0.70	163
SUN	Full Spectrum SunLike®	3500K	95	85	-	-	-	-	130

## POWER & CONTROLS

### Voltage

#### Fixture Voltage (AC)

120–277 VAC

347 VAC, 50/60 Hz

#### Power Location

Remote

#### LED Driver

Factory Selected, 36–39V Constant Current

### Drivers

**FDND** - Factory Non-Dimming

**FD00** - Factory 0-10V 0.1% Dim

**FD01** - Factory 0-10V 1% Dim

**FD10** - Factory 0-10V 10% Dim

**FDDA** - Factory DALI 0.1% Dim

**FDDX** - Factory DMX Dim

**FDTR** - Factory TRIAC Dim

**LD01** - Lutron Hi-Lume 1% Dim

**X\_** - Specify Driver

### Emergency Backup (Optional)

**EMC** - Emergency Circuit

**EMB** - Emergency Battery

(10 W — Remote)

**X\_** - Specify Backup

#### Power

10 W

#### Illumination Time

90 minutes

#### IP Rating

Suitable for Dry and Damp Locations,  
indoor use only

### XBox

#### Remote Driver Boxes (Optional)

To create a clean and organized power solution for multiple fixture installations see our XBox Specification Guide. Reach out to a XICO Sales Representative to discuss your projects needs.

### Compatible Control Options



