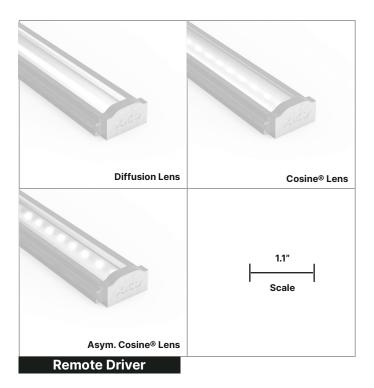
# MICRORail 110

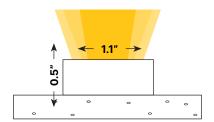
# Direct | Standard Lengths

Project Name



## LIGHTING CONFIGURATIONS







Fixture Type

# **DESCRIPTION**

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

The MICRORail with a choice of dome, diffuse and a unique, patented, wide-angle and asymmetric Cosine® optic to deliver the perfect indirect "batwing" and patented "flattop" style light distribution with an overall optical efficiency of over 90%—the industry's best linear wide-angle indirect luminaire. A low-profile surface mount LED rail featuring the patented Cosine® Optic delivers a uniform uplight 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, 2200K to 5000K 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



















	Project Nar	me	Fixture Type		
1) FIXTURE DESI	GN				
PRODUCT	FIXTURE LENGTH	FINISH	END CAP STYLE	DAISY	CHAIN
MRA110 1.1" Low-Profile linear LED Rail	1 - 1 ft 2 - 2 ft 3 - 3 ft 4 - 4 ft 6 - 6 ft 8 - 8 ft X Specify Ft', In" (Ask Factory	Powder Coated PMW - Matte White PMB - Matte Black PMG - Matte Gray PRAL Specify RAL # Anodized ACL - Clear Anodized ACU Custom Anodiz			No: Daisy Chain Yes: Daisy Chain
2) LED LIGHT EN	GINE	·			
CRI	сст	OPTIC (DIRECT ONLY)	DIRECT BEAM PATTERN		DIRECT OUTPUT
80 - Std. 80 CRI 90 - Std. 90 CRI 95 - High-Def. 95 CRI SUN - Full SunLike 27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K XD - Dim-to-Warm XT - Tunable	<b>30</b> - 3000K <b>35</b> - 3500K <b>40</b> - 4000K <b>XD</b> - Dim-to-Warm	DO - Diffusion Optics  CO - Cosine Optics®	DLAM - Lambertian  DBW120 - Batwing 120 DFT150 - FlatTop 150°	y°	35 - 350 lm/ft 50 - 500 lm/ft 75 - 750 lm/ft 100 - 1,000 lm/ft X Specify lm/ft
	Specify Dim-to-Warm and Tunable between 2700K-6500K.	Specify Dim-to-Warm and Tunable between AC - Asymmetric Cosin		DA6040 - Asym 60° at 40° Tilt DA4560 - Asym 45° at 60° Tilt	
3) FIXTURE POW	ER & CONTROLS				
LINE VOLTAGE (DC)	REMOTE DRIVER (POWER) <sup>1</sup>				
<b>UNV</b> - 120/277V <b>347</b> - 347V	FDND - Factory Non-Dimmin FD00 - Factory 0-10V 0.1% D FD01 - Factory 0-10V 1% Din FD10 - Factory 0-10V 10% Di FDDA - Factory DALI 0.1% Din FDDX - Factory DMX Dim FDTR - Factory TRIAC Dim LD01 - Lutron Hi-Lume 1% Di X Specify Driver	งไท n im m	Footnotes: <sup>1</sup> Standard driver box is included	ė.	

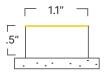
4) FIXTURE MOUNTING & CONNECTIONS			
MOUNTING TYPE	CONNECTOR (DC)		
SMC - Surface Mount Clip SMM - Surface Mount Magnet TC1 - 9/16" Flat T-Bar Mount TC2 - 9/16" Bolt Slot T-Bar Mount TC3 - 15/16" Flat T-Bar Mount TC1, TC2 and TC3 clips directly to grid t-bar.	SW - Strip Wire FP - Factory Plug		

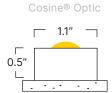
OPTIONAL	
EMERGENCY BACKUP	WIRELESS MODULE
EMC - Emergency Circuit EMB - Emergency Battery	WCN - Wireless Communication Node (Connected to LED Driver In-Fixture or In-Driver Box)
(10 W — Remote)	PIR - Wireless Communication Node + PIR Sensor (Standard Lens for Low Bay < 10')
X Specify Backup	<b>MW</b>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

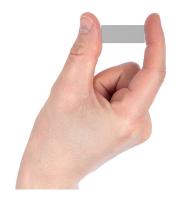
# **DIMENSIONS & INSTALLATION**

#### **Dimensions**

Diffusion Lens 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.

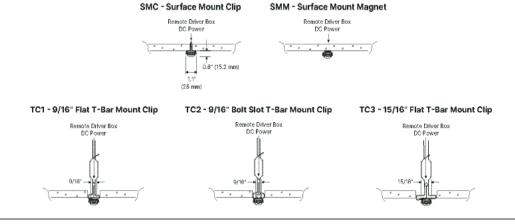
**Drywall Mount** 

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



# **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**

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

# **LPW Efficacy Conversion Chart**

	CCT SELECTED							
CODE	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
SUN95	_	0.90	0.92	1.00	1.01	1.07	1.04	1.05

# **LPW Performance**

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

$$LM/W = \begin{pmatrix} & DIRECT & + & INDIRECT \\ LM/FT & + & LM/FT \end{pmatrix}$$

$$\begin{pmatrix} & DIRECT & + & INDIRECT \\ W/FT & + & W/FT \end{pmatrix}$$

MICRORail110 SPECIFICATION GUIDE

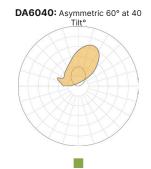
# **PHOTOMETRICS**

# **Static White Light**

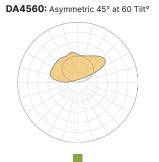
48" Length, HE80 LED, 80+/3500K CRI/CCT, 3,000 Lumens



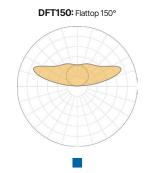
LM/FT	W/FT	LM/W
350	2.4	145.8
500	3.4	150
750	5.1	147.1
1000	6.8	147.1



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



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



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			

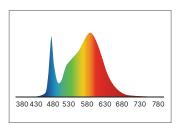
LM/FT	W/FT	LM/W
350	2.4	145.8
500	3.4	150
750	5.1	147.1
1000	6.8	147.1

COMPATIBLE OPTIC								
DIFFUSION	COSINE®	ASYM COSINE®						

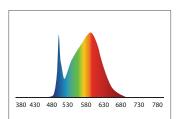
MICRORail110 SPECIFICATION GUIDE

# **LED OPTIONS**

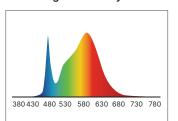
S80: Standard 80+ CRI



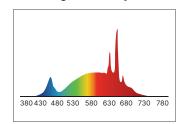
S90: Standard 90+ CRI



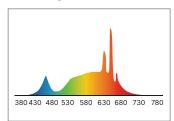
HE80: High-Efficiency 80+ CRI



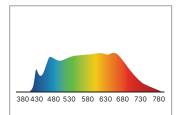
HE90: High-Efficiency 90+ CRI



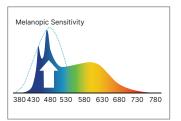
HD95: High-Definition 95+ CRI



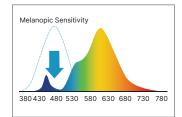
SUN: Full Spectrum "SunLike"



**HCD:** Human Centric Day



**HCN:** Human Centric Night



		TYPICAL LED DATA								
CODE	DESCRIPTION	ССТ	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	

# **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 you projects needs.

# **Compatible Control Options**



**LUT** - Lutron



CAS - Casambi



# **TECHNICAL SPECIFICATIONS**

# Finishes & Design Options Housing Colors (Matte Finish)

White (RAL9003) Black (RAL9005) Gray (RAL7001) Custom RAL



### **Housing Material**

6063-T5 extruded, recycled aluminum

## **Mounting Brackes**

Sheet Metal

#### **Flat End Cap Material**

Machined or cast alumninum

#### **Lens Options and Material**

Diffusion, Cosine and Asymetric Cosine lens options with Patented SmartOptics® made from Acrylic (PMMA)

### Standards & Certifications

#### Sustainability

Low carbon, environmentally conscious packaging and shipping methods

#### Compliance

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



#### Certifications









#### **Declare Listed and Red List Free**

Low carbon, environmentally conscious packaging and shipping methods

#### Recyclable

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

#### 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



## **Declare Listed**

At Xico Lighting, we are committed to transparency and sustainability. That's why all our products are Declare listed, providing clear insights into their environmental footprint and safety. Look for these internationally recognized labels on Xico products, packaging, or at xicoled.com/declare.



# **Red List Free**

Xico Lighting is dedicated to creating safe, sustainable solutions. All our products are Red List Free, meeting the highest industry standards for healthy and environmentally responsible materials as defined by the International Living Future Institute (ILFI). Learn more at xicoled.com/declare.

# **Quick Links**

5-YR Warranty



**Business Terms** 



Patents & Trademarks



SmartBeam



**Revit Files** 

