

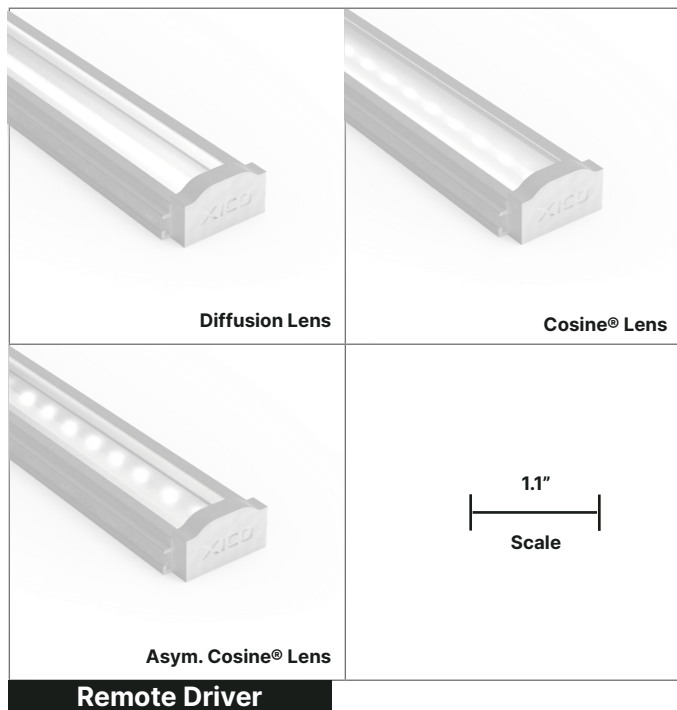
MICRORail 110

Direct | Standard Lengths

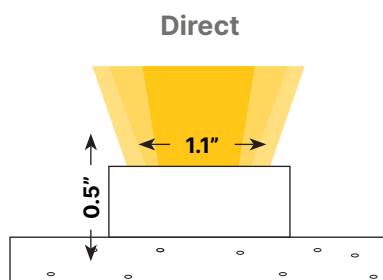
Project Name _____

Fixture Type _____

XICO®



LIGHTING CONFIGURATIONS



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

Declare



bios



Designed & Built in
BOSTON

Project Name _____

Fixture Type _____

1) FIXTURE DESIGN

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 Anodized #	E1 - Flat End Cap	NDC - No: Daisy Chain YDC - Yes: Daisy Chain

2) LED LIGHT ENGINE

CRI	CCT	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 X_ - Specify CCT Specify Dim-to-Warm and Tunable between 2700K-6500K.	DO - Diffusion Optics CO - Cosine Optics® AC - Asymmetric Cosine®	DLAM - Lambertian DBW120 - Batwing 120° DFT150 - FlatTop 150° DA6040 - Asym 60° at 40° Tilt DA4560 - Asym 45° at 60° Tilt	35 - 350 lm/ft 50 - 500 lm/ft 75 - 750 lm/ft 100 - 1,000 lm/ft X_ - Specify lm/ft

3) FIXTURE POWER & CONTROLS

LINE VOLTAGE (DC)	REMOTE DRIVER (POWER) ¹	Footnotes: ¹ Standard driver box is included
UNV - 120/277V 347 - 347V	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	

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

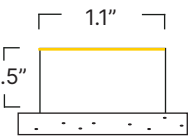
OPTIONAL

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

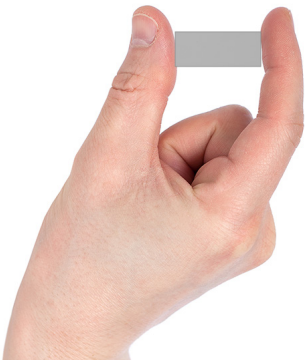
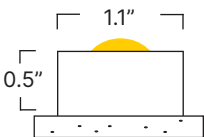
DIMENSIONS & INSTALLATION

Dimensions

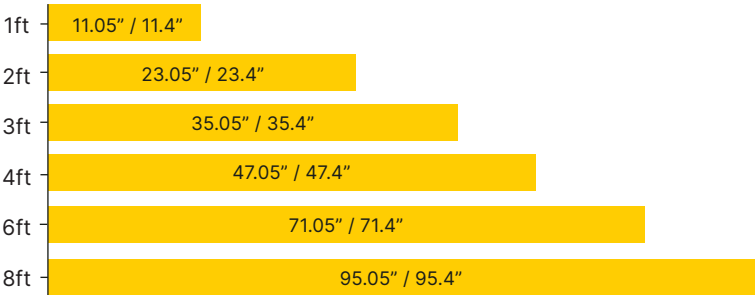
Diffusion Lens Optic



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

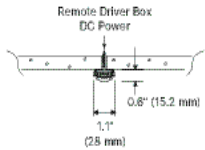
Installs onto any drywall or gypsum panel. Available with a range of accessories, mounts and inserts that provide easy customization of visual appearance and performance enhancements.

Mounting Kit

Surface Mounting Bracket

Stainless Steel

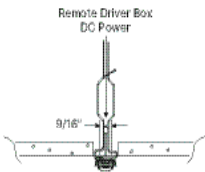
SMC - Surface Mount Clip



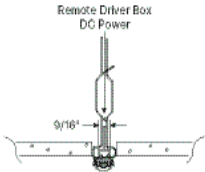
SMM - Surface Mount Magnet



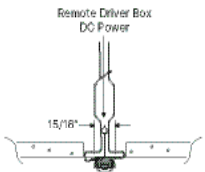
TC1 - 9/16" Flat T-Bar Mount Clip



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
Diffusion 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
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

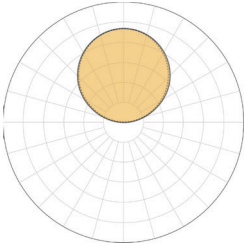
$$\text{LM/W} = \frac{\left(\begin{array}{c} \text{DIRECT} \\ \text{LM/FT} \end{array} + \begin{array}{c} \text{INDIRECT} \\ \text{LM/FT} \end{array} \right)}{\left(\begin{array}{c} \text{DIRECT} \\ \text{W/FT} \end{array} + \begin{array}{c} \text{INDIRECT} \\ \text{W/FT} \end{array} \right)}$$

PHOTOMETRICS

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

Static White Light

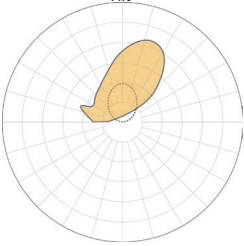
DLAM: Lambertian



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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

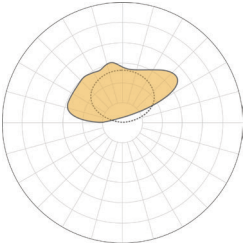
DA6040: Asymmetric 60° at 40 Tilt°



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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

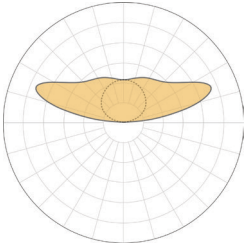
DA4560: Asymmetric 45° at 60 Tilt°



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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

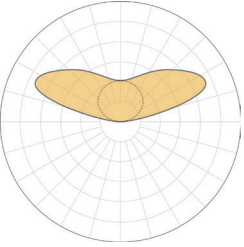
DFT150: Flattop 150°



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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

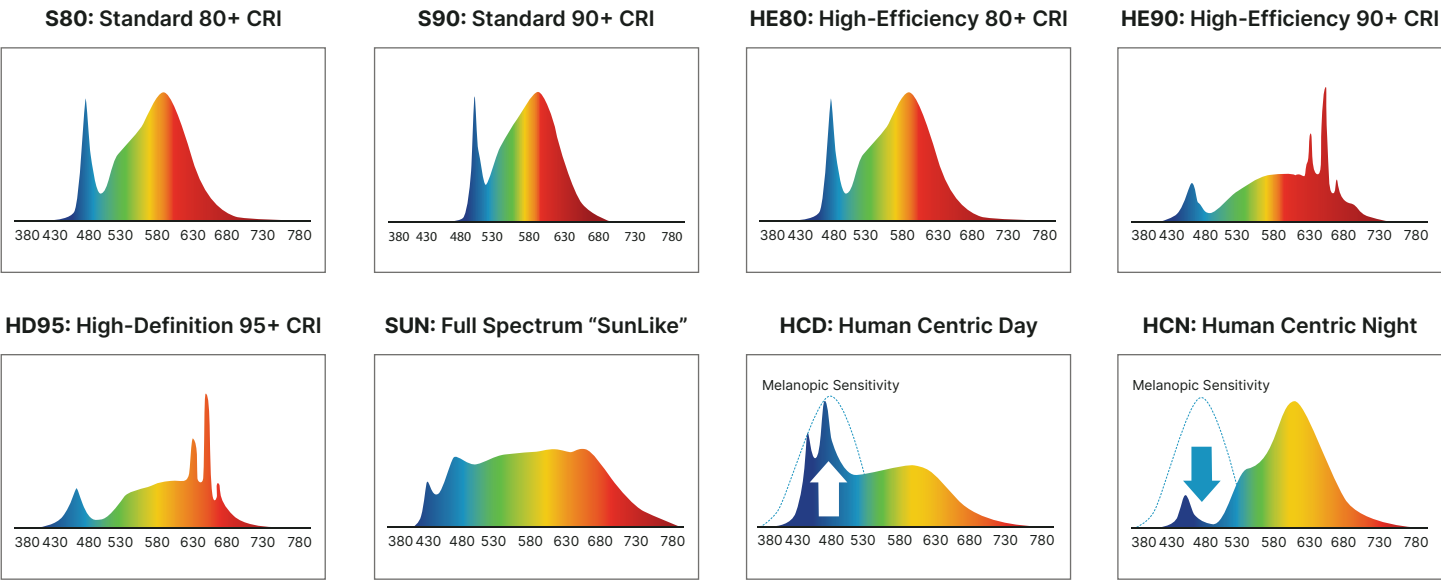


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LM/FT	W/FT	LM/W
350	2.4	145.8
500	3.4	150
750	5.1	147.1
1000	6.8	147.1

COMPATIBLE OPTIC		
DIFFUSION	COSINE®	ASYM COSINE®
■	■	■

LED OPTIONS



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

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 RatingSuitable 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 project's needs.

Compatible Control Options

**LUT** - Lutron**CAS** - Casambi**COO** - Cooper

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