

NANORail95

Indirect | Standard Lengths

Project Name _____

Fixture Type _____

XICO®



DESCRIPTION

0.95" x 0.54" Low-Profile Ultra-Narrow Linear LED

The NANORail is the industry's smallest linear, high performance and slim indirect luminaire for cove, undercabinet and hidden accent lighting. NANORail is based on patented Cosine optics and technology and provides a choice of lambertian, symmetric and asymmetric light distributions with an overall optical efficiency of over 90%.

FEATURES & BENEFITS

Ultra-Narrow (0.95") with Exceptional Performance

0.95" x 0.54" form delivering up to 1,000 lm/ft, at >150 lm/W

Wide Range of LED Selections

Static, Tunable White, Dim-to-Warm, and BIOS

Designed with Options

Wide choice of SmartOptic® lenses, beam distributions, 80/90/95+ CRI, 2700K to 65000K 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

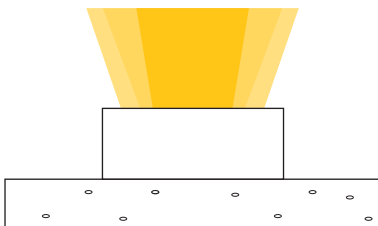
UL Listed, Dry and Damp Locations

5-Year Warranty

Standard 5-year warranty, 50,000 hours

LIGHTING CONFIGURATIONS

Indirect



Declare



bios



Designed & Built in
BOSTON

FIXTURE ORDERING

Project Name _____

Fixture Type _____

1) FIXTURE DESIGN

PRODUCT	FIXTURE LENGTH	FINISH	DAISY CHAIN
NRA95 0.95" Low-Profile Linear LED Rail	1 - 1 ft 2 - 2 ft 3 - 3 ft 4 - 4 ft X_ - Specify Ft', In"	Powder Coated PMW - Matte White PMB - Matte Black PMG - Matte Gray PRAL_ - Specify RAL #	DN - No: Daisy Chain (Single Input) DY - Yes: Daisy Chain
	Custom fixtures are available in 3" increments beyond standard lengths.	Anodized ACL - Clear Anodized ACU_ - Custom Anodized #	

2) LED LIGHT ENGINE

CRI	CCT	INDIRECT OPTIC	INDIRECT 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 ¹ XT - Tunable ¹ X_ - Specify CCT Specify Dim-to-Warm and Tunable between 2700K-6500K.	CO - Cosine® Optic DO - Dome Lens	ILAM - Lambertian IBW120 - Batwing 120° IFT150 - Flattop 150° IA4560 - Asym 45° at 60° Tilt IA6040 - Asym 60° at 40° Tilt ILAM - Lambertian	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 & MOUNTING

LINE VOLTAGE (DC)	REMOTE DRIVER (POWER) ²	MOUNTING TYPE
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	SMC - Surface Mount Clip SMM - Surface Mount Magnet

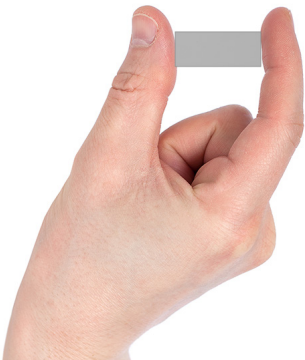
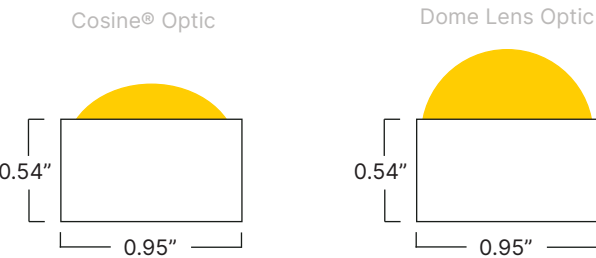
Footnotes: ¹ Contact factory about custom beam options. ² Standard driver box is included

OPTIONAL

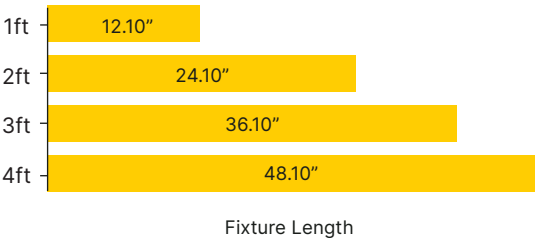
EMERGENCY BACKUP	WIRELESS MODULE
EMC - Emergency Circuit EMB - Emergency Battery (10 W — Remote) X_ - Specify Backup Specify requirements at time of order.	WCN - Wireless Communication Node (Connected to LED Driver In-Fixture or In-Driver Box) PIR - Wireless Communication Node + PIR Sensor (Standard 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



Standard Fixtures

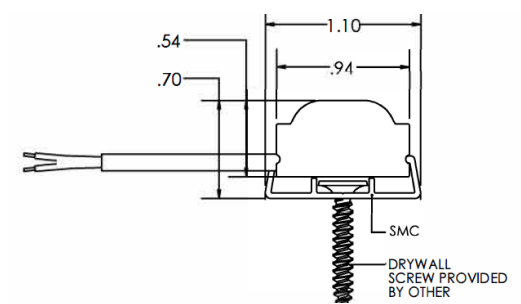


Mounting Type

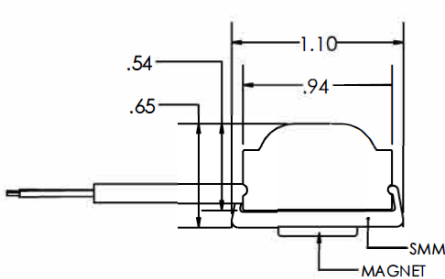
Surface Mount

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

Surface Mount Clip



Surface Mount Magnet

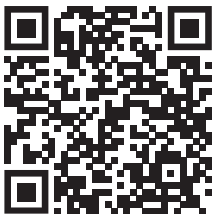


SMARTBEAM® TECHNOLOGY

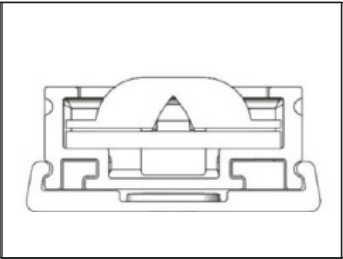
The Ultimate Control of Lighting Distributions

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.

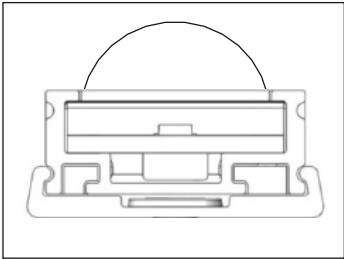
To learn more about our SmartBeam Technology, please click or scan the QR Code.



Direct Optics Choices



CO - Cosine® Optic



DO - Dome Lens

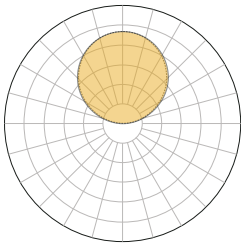
DIRECT OPTICS	BEAM PATTERN				
	ILAM	IBW120	IFT150	IA6040	IA4560
Cosine® Optic					
Dome Lens					

PHOTOMETRICS

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

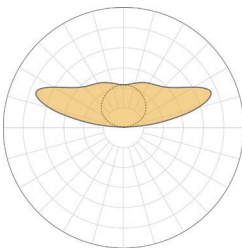
Static White Light

ILAM: Lambertian



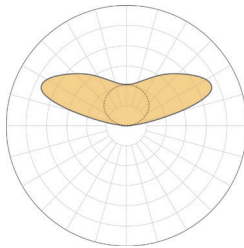
LM/FT	W/FT	LM/W
350	2.4	145.8
500	3.4	150
750	5.1	147.1
1000	6.8	147.1

IFT150: Flattop 150°



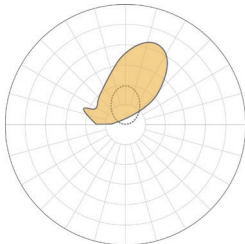
LM/FT	W/FT	LM/W
350	2.4	145.8
500	3.4	150
750	5.1	147.1
1000	6.8	147.1

IBW120: Batwing 120°



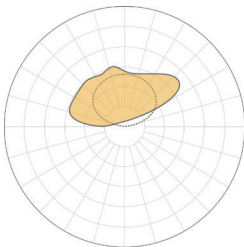
LM/FT	W/FT	LM/W
350	2.4	145.8
500	3.4	150
750	5.1	147.1
1000	6.8	147.1

IA6040: 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

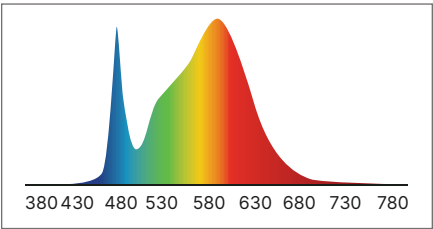
IA4560: Asymmetric 45° at 60 Tilt°



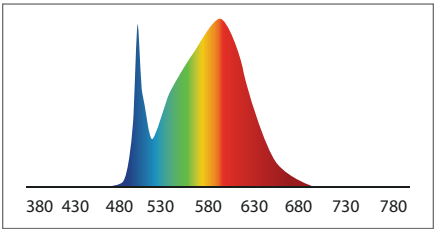
LM/FT	W/FT	LM/W
350	2.4	145.8
500	3.4	150
750	5.1	147.1
1000	6.8	147.1

LED SELECTION GUIDE

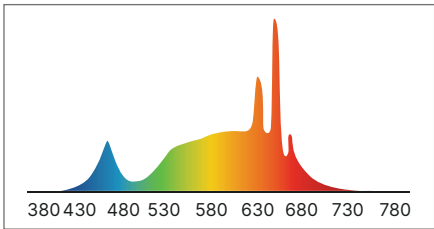
S80: Standard 80+ CRI



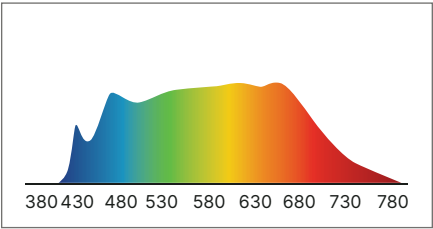
S90: Standard 90+ CRI



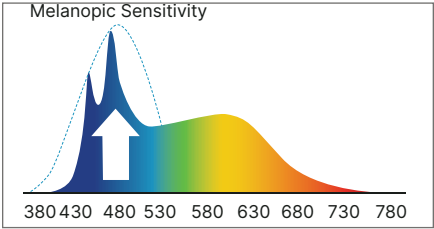
HD95: High-Definition 95+ CRI



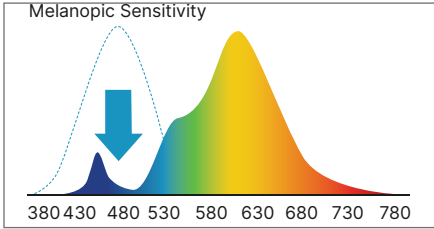
SUN: Full Spectrum "SunLike"



HCD: Human Centric Day



HCN: Human Centric Night



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
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
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
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
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

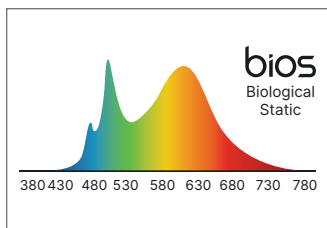


To learn more about BIOS Technology, please click or scan the QR Code.

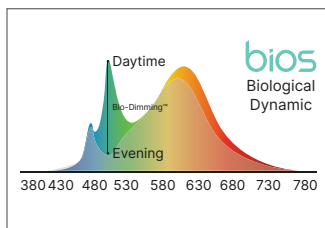


BIOS is offered in four Circadian LED Solutions with BIOS SkyBlue Technology — Biological Static, Biological Dynamic, Biological Tunable, and Biological Dim-to-Warm. BIOS SkyBlue™ Technology includes a blue peak at 490nm that provides an effective daytime circadian signal using standard architectural color temperatures.

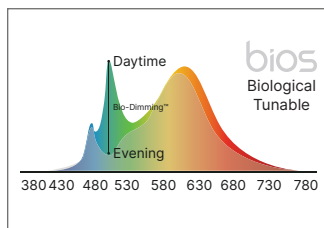
BIOS Static



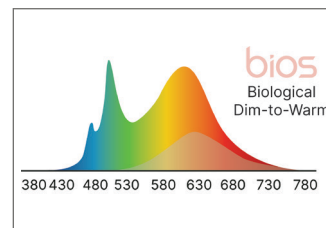
BIOS Dynamic



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

CODE	DESCRIPTION	BIO-DIMMING MODULE TECHNOLOGY GUIDE					
		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)				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)				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)				No	Intensity Dimming & Spectrum Change Controlled Separately	Removed by Adjusting "Spectrum Channel"

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



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