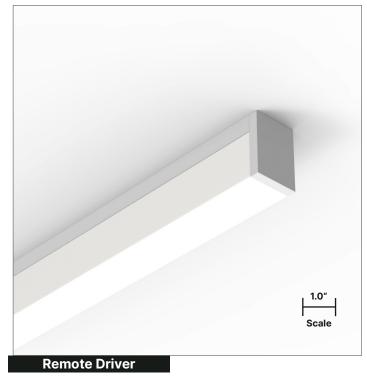
NANOFlat



1" Low-Profile Linear LED Flat Rail with Lens Options





Features & Benefits

Exceptional Performance
Up to 1,000 lm/ft, 150 lm/W efficacy

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

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

Designed & Built in **BOSTON**







FIXTURE ORDERING

Project Name

1) FIXTURE DESIGN

Fixture Type

PRODUCT	MOUN	MOUNTING TYPE		LENGTH		FINISH		DAISY CHAIN		
NFL										
1.4" Low-Profile Linear LED Flat Rail	SMC SMM TC1 TC2 TC3	Surface Mount Clip Surface Mount Magnet 9/16" Flat T-Bar Mount Clip 9/16" Bolt Slot T-Bar Mount Clip 15/16" Flat T-Bar Mount Clip	1F 2F 4F 6F 8F	1' 2' 4' 6' 8'	MWH MBK MGR CAE RAL_	Matte White (RAL9003) Matte Black (RAL9005) Matte Gray (RAL7001) Clear Anodized Effect Specify RAL#	DN DY	No Daisy Chain Yes Daisy Chain		

Specify X', Y"

2) LED LIGHT ENGINE

CRI		ССТ		OPTIC		BEAM PAT	TERN	LUM	EN OUTPUT
S80	Std. 80 CRI	22	2200K	OFL	Flat Lens	LAM	Lambertian	25	250 lm/ft
S90	Std. 90 CRI	27	2700K	OSL0.5	0.5" Square Lens	BW60	Batwing 60°	35	350 lm/ft
HE80	High-Eff. 80 CRI	30	3000K	OSL1.0	1.0" Square Lens	CW5560	Ceiling Wash 55° at 60° Tilt	50	500 lm/ft
HE90	High-Eff. 90 CRI	35	3500K		•	A4015	Asymmetric 40° at 15° Tilt	75	750 lm/ft
HD95	High-Def. 95 CRI	40	4000K			M50	Medium 50°	100	1,000 lm/ft
SUN	Full SunLike	50	5000K			N40	Narrow 40°		,
SBIOS	Static BIOS					MCO25	Micro Cavity Optic 25°	Χ_	Specify Im/ft
DBIOS	Dynamic BIOS		Dim-to-Warm				, ,	_	, , ,
TBIOS	Tunable White BIOS	3022DW	3000K to 2200K			X_	Specify Beam		
RGBW	Red, Green, Blue, White	3527DW	3500K to 2700K			_	, , , ,		

X_ Specify CCT

3) FIXTURE POWER & CONTROLS

LINE \	/OLTAGE (DC)	REMO	TE DRIVER (POWER)	EMER	GENCY BACKUP	REMOT	E DRIVER BOX1	CONT	ROL SYSTEM ³
UNV 347	120/277V 347V	FDND FD01 FD10 FDDA FDDX FDTR LD01 LD05	Factory Non-Dimming Factory 0-10V 1% Dim Factory 0-10V 10% Dim Factory DALI 0.1% Dim Factory DMX Dim Factory TRIAC Dim Lutron Hi-Lume 1% Dim Lutron 5-Series 5% Dim	NN EMC EMB	Not Needed Emergency Circuit Emergency Battery (10 W — Remote) Specify Backup	NN RLDB ² RX2D ² RX3D ² RX5D ²	Not Needed Remote Linear Driver Box (driver included by default) Optional Remote XBox2 Driver, Up to 2 Drivers Optional Remote XBox3 Driver, Up to 3 Drivers Optional Remote XBox5	NN LUT COO CAS X_	Not Needed Lutron Cooper Casambi Specify Control System
		ED00 ED01 EDDA X_	eldoLED 0-10V 0.1% Dim eldoLED 0-10V 1% Dim eldoLED DALI 0.1% Dim Specify Driver				Driver, Up to 5 Drivers		

4) ELECTRICAL CONNECTIONS

POWER C	ORD	CONNE	CTOR (DC)
COANALL	24" Mhita Cabla Kit	CM	Ctrin Wira

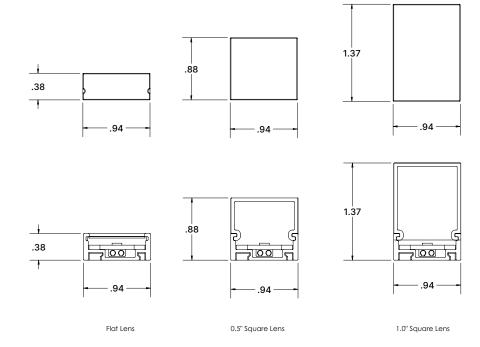
\$24WH24" White Cable Kit\$WStrip Wire\$24BK24" Black Cable KitFPFactory Plug

Footnotes: ¹Remote 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





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

Length

Length Options 1', 2', 4', 6', 8', 10' nominal, or custom within 3"

Finish

Housing Colors (Matte Finish)



Housing Material 6063-T5 extruded, recycled aluminum

Mounting Brackets Sheet metal

End Cap

End Cap Option Flat

End Cap Material Machined or cast aluminum

Optic

Lens Options Dome Diffusion, Flat, Light Guide, and Micro Cavity Optics

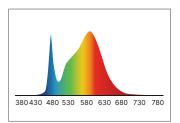
Lens Material Patented SmartOptics® made from Acrylic (PMMA)

Voltage

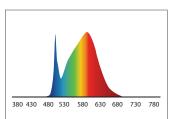
Fixture Voltage (AC) 120–277 VAC and 347 VAC, 50/60 Hz

LED SELECTION GUIDE

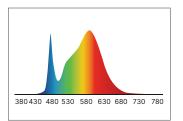
S80: Standard 80+ CRI



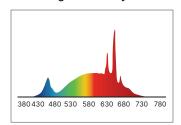
S90: Standard 90+ CRI



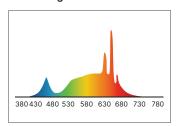
HE80: High-Efficiency 80+ CRI



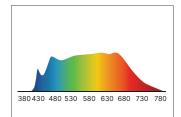
HE90: High-Efficiency 90+ CRI



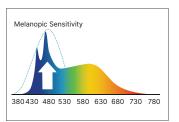
HD95: High-Definition 95+ CRI



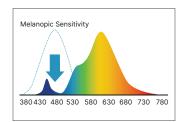
SUN: Full Spectrum "SunLike"



HCD: Human Centric Day



HCN: Human Centric Night



Static White Light (LED Light Engine Only)

			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

LPW Efficacy Conversion Chart

	CCT SELECTED											
CODE	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				

NANOFlat

BIOS TECHNOLOGY

bios

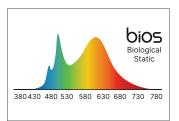
Choosing Your BIOS Solution

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.

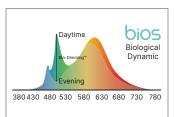
To learn more about BIOS Technology, please click or scan the QR Code.



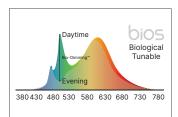
BIOS Static



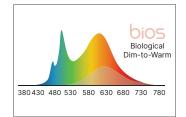
BIOS Dynamic



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 MOD	ULE TECHNOI	OGY GUIDE	
CODE	DESCRIPTION	Driver	Driver Voltage	сст	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		0-10V Intensity		Yes	Intensity Dimming & Spectrum Change Controlled Together	Removed with BIO-Dimming
DBIOS-2	BIOS Dynamic (Two Channel)	BIODIM1	Dimming to 1% Dim-to-Dark	500K Shift	No	Intensity Dimming & Spectrum Change Controlled Separately	Removed by Adjusting "Spectrum Channel"
TBIOS	BIOS Tunable		0-10V Control of Intensity & CCT on Separate 2 Channels / DALI Control of Intensity & CCT on Separate 2 Channels		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				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"

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.



FIXTURE POWER & CONTROLS

Voltage

LED Driver Factory Selected, 36–39V Constant Current

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

Partners



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

XBox

Remote Driver BoxesTo create a clean and organized power solution for multiple fixture installations see our XBox

(Optional) Specification Guide. Reach out to a XICO Sales Representative to discuss you projects needs.

NANOFlat









Flush Lens

0.5" Square Lens

1.0" Square Lens

Connectors (DC)

FIXTURE MOUNTING & CONNECTIONS

Mounting Type

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.

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.

Wall Mount Installs onto a wall. Available with a range of accessories, mounts and inserts that provide easy

customization of visual appearance and performance enhancements.

Power Cord

24" Cable Kit White and Black

Connector (DC)

Connector Plug Options Strip Wire and Factory

Mounting Kit

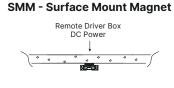
Surface Mounting Bracket Stainless Steel

Mounting Options

Remote Driver Box
DC Power

0.5" (12.7mm)

1.4"
(35.6 mm)



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

Remote Driver Box DC Power

Remote Driver Box DC Power

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

Remote Driver Box DC Power

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

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



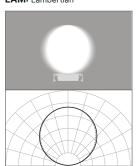




For details on our warranty and business terms, please click or scan the QR Code.

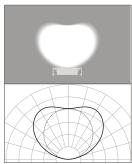
PHOTOMETRICS

LAM: Lambertian



Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/ft	750
Watts	8
W/ft	5.8
LPW	130

BW60: Batwing 60°

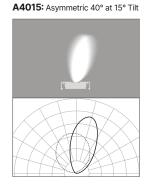


Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/ft	750
Watts	5
W/ft	5
LPW	149

CW5560: Ceiling Wash 55° at 60° Tilt



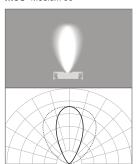
Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/ft	750
Watts	5
W/ft	5
I DW	1/19



Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/ft	750
Watts	10
W/ft	5.6
LPW	134

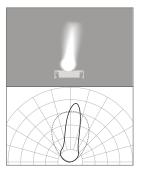
Static White Light

M50: Medium 50°



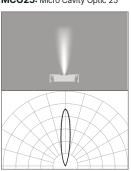
Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/ft	750
Watts	4.7
W/ft	5
LPW	153

N40: Narrow 40°



Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/ft	754
Watts	20
W/ft	5
LPW	151

MCO25: Micro Cavity Optic 25°



Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/ft	750
Watts	37
W/ft	9
LPW	82