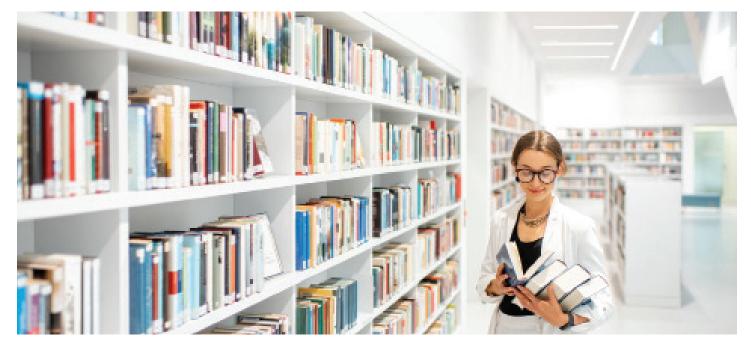
MICROFlat140



0.4" x 1.4" Low-Profile Linear LED Flat Rail





Features & Benefits

Exceptional Performance

0.4" x 1.4" fixture delivering up 1,000 lm/ft at 150 lm/W.

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						TH	FINISH	l		
MFL140	MOUNTING		_140 MOUNTING		DAISY CHAIN					
1.4" Low-Profile	SMC	Surface Mount Clip	NDC	No Daisy Chain	1FT	1'	MWH	Matte White (RAL9003)		
Linear LED	SMM	Surface Mount Magnet	YDC	Yes Daisy Chain	2FT	2'	MBK	Matte Black (RAL9005)		
Flat Rail	TC1	9/16" Flat T-Bar Mount Clip		-	4FT	4'	MGR	Matte Gray (RAL7001)		
	TC2	9/16" Bolt Slot T-Bar Mount			6FT	6'	CAE	Clear Anodized Effect		
	TC3	Clip 15/16" Flat T-Bar Mount Clip			8FT	8'	RAL_	Specify RAL#		
					X_	Specify X', Y"				

2) LED LIGHT ENGINE & OPTICS

3) FIXTURE POWER & CONTROLS

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

4) CONNECTIONS & ACCESSORIES

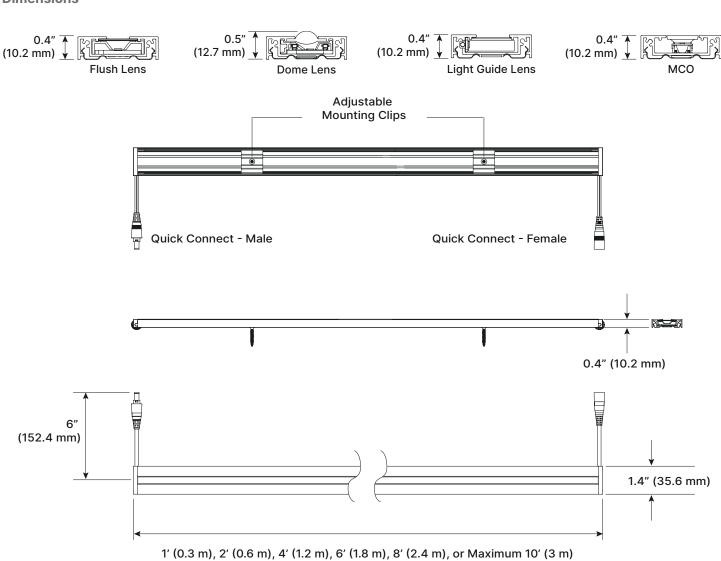
POWER CORD			CONNECTOR (DC)				
S24WH S24BK	24" White Cable Kit 24" Black Cable Kit	SW FP	Strip Wire Factory Plug				

Footnotes: ¹ Remote 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.

	Project Name	
NOTES	Fixture Type	

FIXTURE DESIGN

Dimensions



Length

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

Finish

Housing Colors (Matte Finish)





Gray (RAL7001)



Clear Anodized Effect



Custom RAL

Housing Material 6063-T5 extruded, recycled aluminum

Mounting Brackets Sheet metal

Black (RAL9005)

End Cap

White (RAL9003)

End Cap Option Flat

End Cap Material Machined or cast aluminum

Optic

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

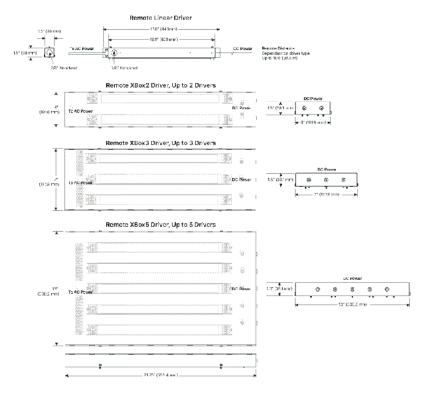
Lens Material Patented SmartOptics® made from Acrylic (PMMA)

Voltage

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

REMOTE DRIVER BOX

Dimensions

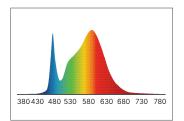




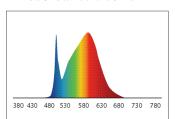
To download BIM (Revit) Files, please click or scan the QR Code.

LED SELECTION GUIDE

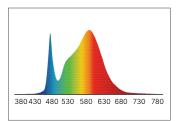
S80: Standard 80+ CRI



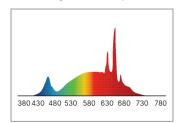
S90: Standard 90+ CRI



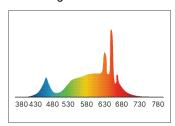
HE80: High-Efficiency 80+ CRI



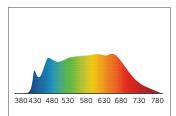
HE90: High-Efficiency 90+ CRI



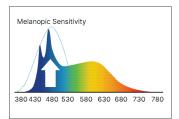
HD95: High-Definition 95+ CRI



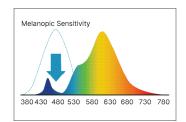
SUN: Full Spectrum "SunLike"



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

				CCTS	ELECTED				
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	

BIOS TECHNOLOGY

bios

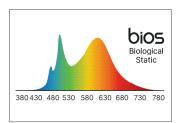
Choosing Your BIOS Solution

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.

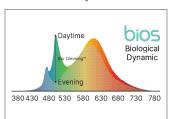
To learn more about BIOS Technology, please click or scan the QR Code.



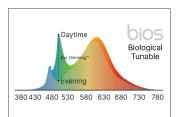
BIOS Static



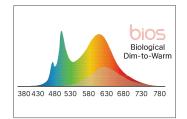
BIOS Dynamic



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		Yes	Intensity Dimming & Spectrum Change Controlled Together	Removed with BIO-Dimming
TBIOS-2	BIOS Tunable (Two Channel)	ATW / DTW	2 Channels / DALI Control of Intensity & CCT on Separate 2 Channels	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"

MICROFlat 140

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.









T-Bar Mount Surface Mount Wall Mount 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

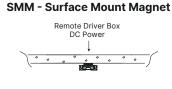
Mounting Kit

Surface Mounting Bracket Stainless Steel

Mounting Options

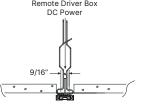
Remote Driver Box
DC Power

1.4"
(35.6 mm)



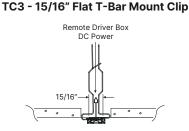
TC1 - 9/16" Flat T-Bar Mount Clip

Remote Driver Box
DC Power



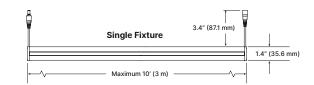
Remote Driver Box DC Power

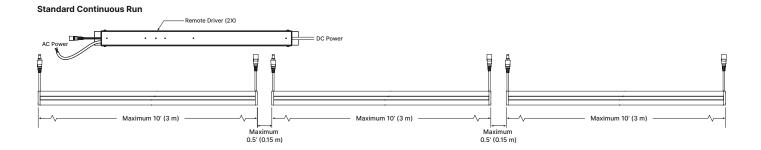
TC2 - 9/16" Bolt Slot T-Bar Mount Clip



Standard Lengths & Continuous Runs

Maximum length of one fixture is 10'. Longer runs can be produced by joining sections. Customer approval of shop drawings is required prior to build of any non-standard length order.





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







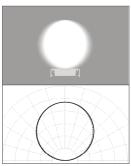
For details on our warranty and business terms, please click or scan the QR Code.

				BEAM PATTE	RN		
OPTIC	LAM	BW60	A4560	A4015	M50	N40	МСО
Dome Diffuser Lens				•	•	•	
Flat Lens	•	•			•		
Light Guide Lens	•	•	•				
Micro Cavity Optics (MCO)							•

PHOTOMETRICS

Static White Light

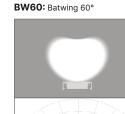
LAM: Lambertian



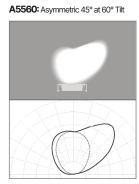
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$\langle \langle \rangle \rangle$		R)		

1	
Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/ft	750
Watts	23.0
W/ft	5.8

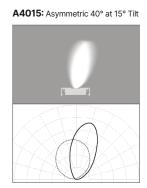
130



Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/ft	750
Watts	20.1
W/ft	5.0
LPW	149



Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/ft	750
Watts	20.1
W/ft	5.0
LPW	149



Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/ft	750
Watts	20.1
W/ft	5.0
LPW	149

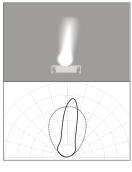


M50: Medium 50°

Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/ft	750
Watts	20.1
W/ft	5.0
LPW	149

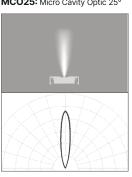
N40: Narrow 40°

LPW



Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/ft	750
Watts	22.2
W/ft	5.6
LPW	135

MCO25: Micro Cavity Optic 25°



Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/ft	750
Watts	36.5
W/ft	9.1
I DW	82

PATENTS & TRADEMARKS



To learn more about our unique technologies, please click or scan the QR Code.

Utility Patents

US11543582, US11520097, US11512466, US11441749, US11396751, US11333822, US11163104,

US11156762, US10852466, US10068447, US8953926, US8948564, US8911099, US8876348, US8794812, US8783898, US8761565, US8750671, US8721152, US8619363, US8430548, US8408775, US8249408, US8231256, US8177408, US8033706, US8033674, US7991257, US7914192, US7784954, US7758227, US7722224, US7542635, US7453636, US7453635, US7431489, US7408707, US7278775, US6369944, US6346311, US6123877, US5932342, US5837346, US20220373144, US20220372752, US20220364708, US20220357006, US20220357005, US20220342141, US20220290432, US20220206210A1, US20220171119A1,

US20220171115A1, US20220162856A1, US20220162853A1, US20220146063A1, US20220137287, US20210301991A1, US20200355345A1, US20200217071A1, US20220333765A1, US20220228366A1, US20220196906A1, US20220010554A1, US20080043490A1, US20060290253A1, US20060215958A1,

US20120321247, US20120250330, US20120099204

Canada CA2702600, CA2702685, CA2702690

 France
 FREP0800658

 Germany
 DEEP0800658

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 Netherlands
 NLEP0800658

 Taiwan
 FTW360813B

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The Patent Corporation Treaty

World Intellectual Property Organization WO2015200268

Trademarks

United States US6672871, US6397231, US6373493, US6257728, US6190558, US6190559, US6142905, US6114408,

US6038234, US6025279, US6060740, US6257729, US5856164, US5734112, US5543304, US5309290,

US5309315, US4691124, US4640751



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