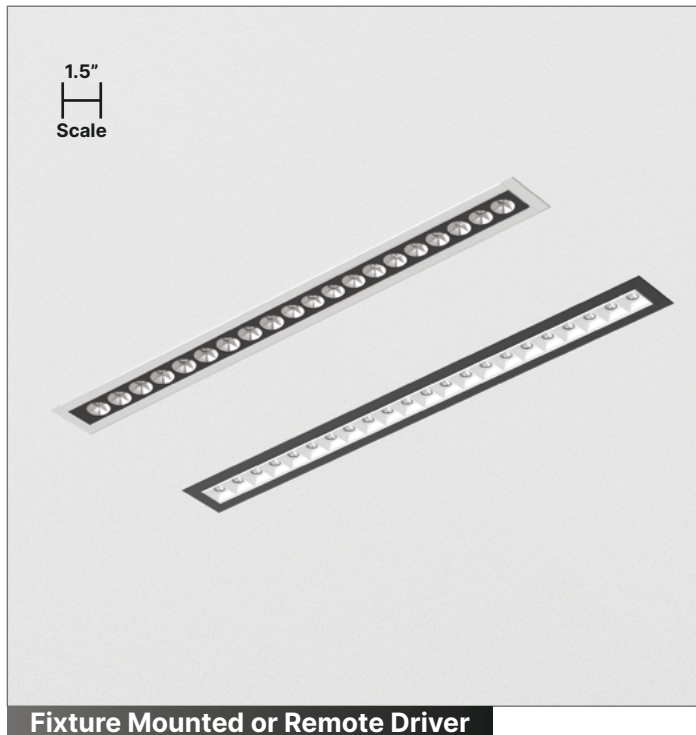


MICROSlot MCO Recessed

1.5" Low-Profile Linear LED Drywall Mount



Features & Benefits

Exceptional Performance

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

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

Designed & Built in
BOSTON

Declare



FIXTURE ORDERING

Project Name

1) FIXTURE DESIGN

Fixture Type

PRODUCT	LENGTH		FIXTURE FINISH		MICRO CAVITY OPTICS (MCO) FINISH	
MSLMCO-RD						
1.5" Linear LED	2	2'	MWH	Matte White (RAL9003)	OSQMCOWH	Square MCO, White
Drywall Mount	4	4'	MBK	Matte Black (RAL9005)	OSQMCOBK	Square MCO, Black
	6	6'	MGR	Matte Gray (RAL7001)	ORMCOWH	Round MCO, White
	8	8'	CAE	Clear Anodized Effect	ORMCOBK	Round MCO, Black
	10	10'	RAL_	Specify RAL#		
	X_	Specify X', Y"				

2) LED LIGHT ENGINE

CRI		CCT		DIRECT BEAM PATTERN		DIRECT OUTPUT	
S80	Std. 80 CRI	22	2200K	DMCO45	Micro Cavity Optics 45°	35	350 lm/ft
S90	Std. 90 CRI	27	2700K	DMCO35	Micro Cavity Optics 35°	50	500 lm/ft
HE80	High-Eff. 80 CRI	30	3000K	DMCO25	Micro Cavity Optics 25°	75	750 lm/ft
HE90	High-Eff. 90 CRI	35	3500K	X_	Specify Beam	100	1,000 lm/ft
HD95	High-Def. 95 CRI	40	4000K			X_	Specify lm/ft
SUN	Full SunLike	50	5000K				
SBIOS	Static BIOS	3022D	3000K to 2200K Dim-to-Warm				
DBIOS	Dynamic BIOS	3527D	3500K to 2700K Dim-to-Warm				
TBIOS	Tunable White BIOS	X_	Specify CCT				

3) FIXTURE POWER & CONTROLS

LINE VOLTAGE (DC)		DRIVER LOCATION		DRIVER (POWER)		REMOTE DRIVER BOX ¹		EMERGENCY BACKUP		CONTROL SYSTEM ³	
UNV	120/277V	FMD	Fixture Mounted Driver	FDND	Factory Non-Dimming	NN	Not Needed	NN	Not Needed	NN	Not Needed
347	347V			FD01	Factory 0-10V 1% Dim	RLDB²	Remote Linear Driver Box	EMC	Emergency Circuit	LUT	Lutron
		RD	Remote Driver	FD10	Factory 0-10V 10% Dim		(driver included by default)	EMB	Emergency Battery (10 W — Onboard or Remote)	COO	Cooper
				FDDA	Factory DALI 0.1% Dim	RX2D²	Optional Remote XBox2 Driver, Up to 2 Drivers	X_	Specify Backup	CAS	Casambi
				FDDX	Factory DMX Dim					X_	Specify Control System
				FDTR	Factory TRIAC Dim						
				LD01	Lutron Hi-Lume 1% Dim	RX3D²	Optional Remote XBox3 Driver, Up to 3 Drivers				
				LD05	Lutron 5-Series 5% Dim						
				ED00	eldoLED 0-10V 0.1% Dim						
				ED01	eldoLED 0-10V 1% Dim	RX5D²	Optional Remote XBox5 Driver, Up to 5 Drivers				
				EDDA	eldoLED DALI 0.1% Dim						
				X_	Specify Driver						

4) FIXTURE MOUNTING & CONNECTIONS

MOUNTING TYPE				POWER CORD	
DK	Drywall Kit			S24WH	24" White Cable Kit
X_	Specify Mounting Type			S24BK	24" Black Cable Kit

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.

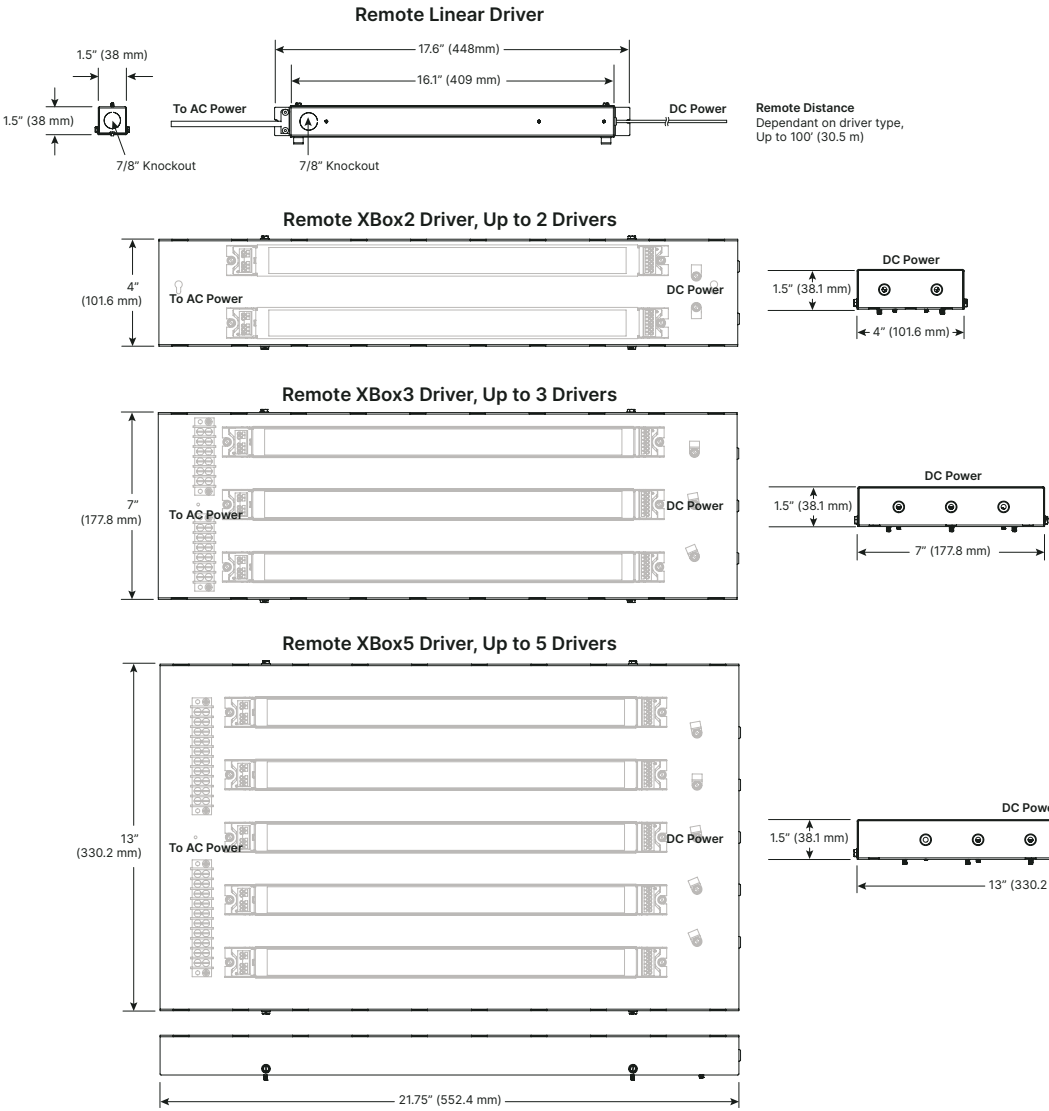
NOTES

Project Name

Fixture Type

REMOTE DRIVER BOX

Dimensions

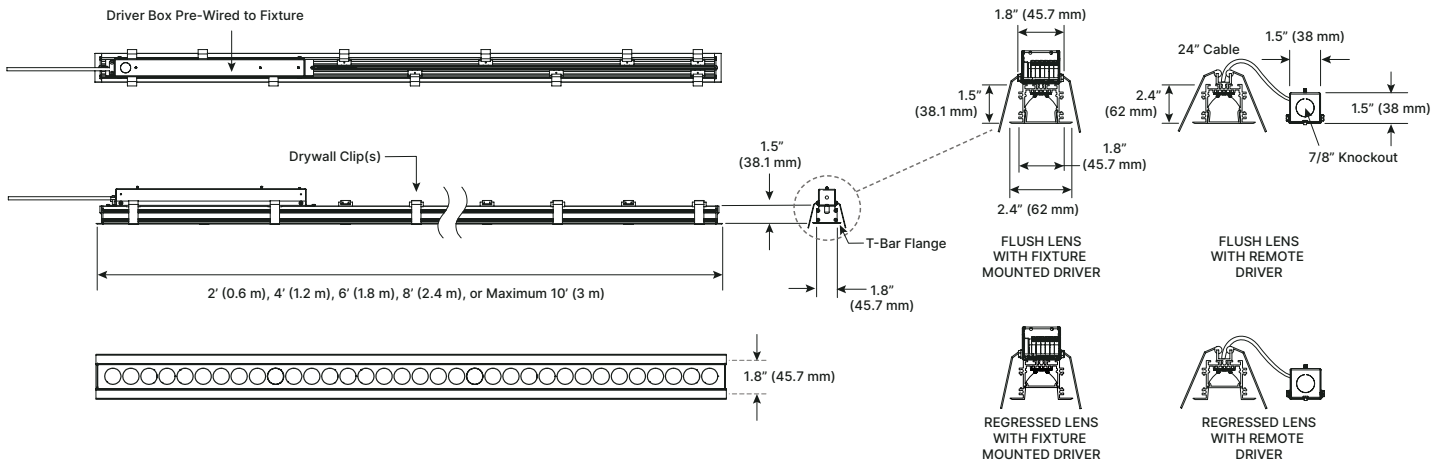


FIXTURE DESIGN

Dimensions



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



Length

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

Finish

Housing Colors (Matte Finish)



White (RAL9003)



Black (RAL9005)



Gray (RAL7001)



Clear Anodized Effect



Custom RAL

Housing Material

6063-T5 extruded, recycled aluminum

Mounting Brackets

Sheet metal

Optic

Lens Options

Square and Round Micro Cavity Optics

Lens Material

Patented SmartOptics® made from Acrylic (PMMA)

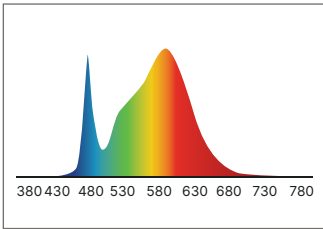
Voltage

Fixture Voltage (AC)

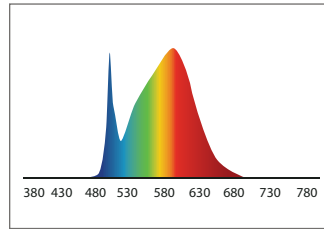
120-277 VAC and 347 VAC, 50/60 Hz

LED SELECTION GUIDE

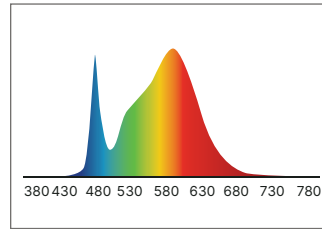
S80: Standard 80+ CRI



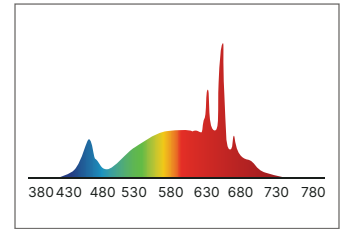
S90: Standard 90+ CRI



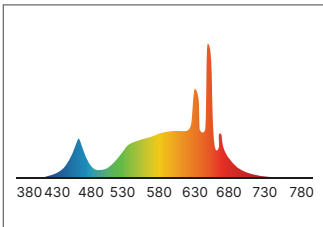
HE80: High-Efficiency 80+ CRI



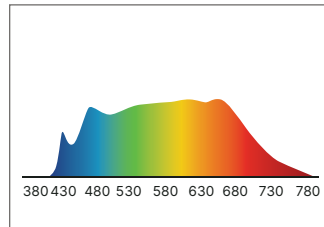
HE90: High-Efficiency 90+ CRI



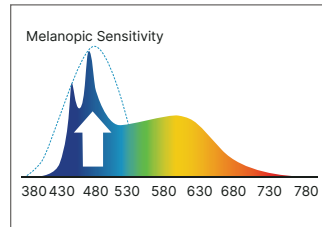
HD95: High-Definition 95+ CRI



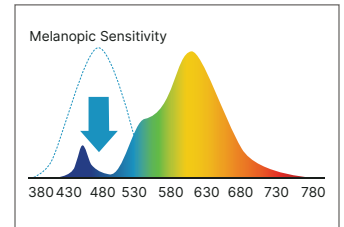
SUN: Full Spectrum "SunLike"



HCD: Human Centric Day



HCN: Human Centric Night



Static White Light (LED Light Engine Only)

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

LPW Efficacy Conversion Chart

CODE	CCT SELECTED							
	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

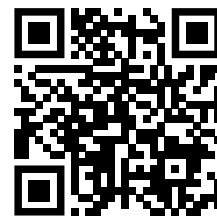
BIOS TECHNOLOGY

Choosing Your BIOS Solution

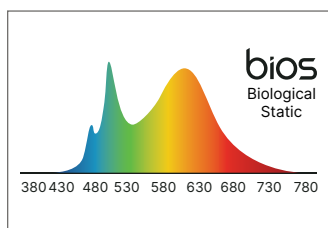
BIOS is offered in four Circadian LED Solutions with BIOS SkyBlue Technology — Biological Static, Biological Dynamic, Biological Tunable, and Biological Dim-to-Warm. BIOS SkyBlue™ Technology includes a blue peak at 490nm that provides an effective daytime circadian signal using standard architectural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

bios

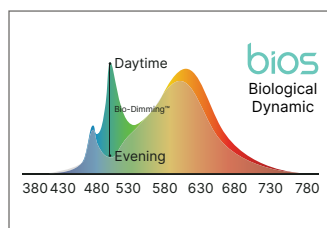
To learn more about BIOS Technology, please click or scan the QR Code.



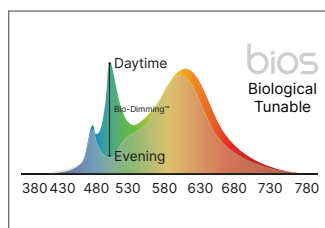
BIOS Static



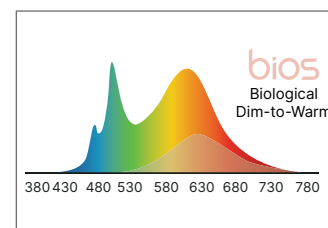
BIOS Dynamic



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

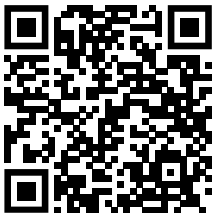
CODE	DESCRIPTION	BIO-DIMMING MODULE TECHNOLOGY GUIDE					
		Driver	Driver Voltage	CCT	Requires BIO-Dimming Module	Lighting Control	BIOS SkyBlue (490nm)
SBIOS	BIOS Static	DIM1	0-10V Dimming to 1% Dim-to-Dark	No CCT Change	No	Intensity Dimming Control Only	Always Present
DBIOS	BIOS Dynamic	BIODIM1	0-10V 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"

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 Onboard or 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

Drivers (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)

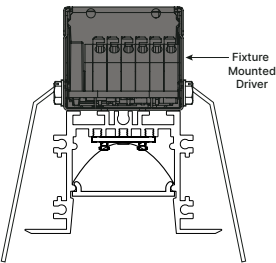
Lutron Hi-Lume 1% Dimming and 5-Series 5% Dimming

Cooper Compatible driver

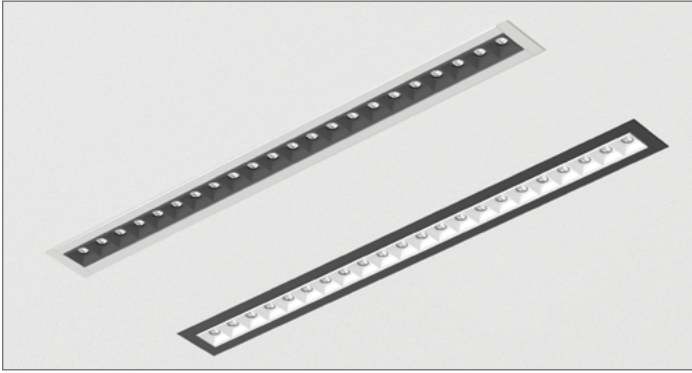
Casambi (wireless) Compatible driver

XBox

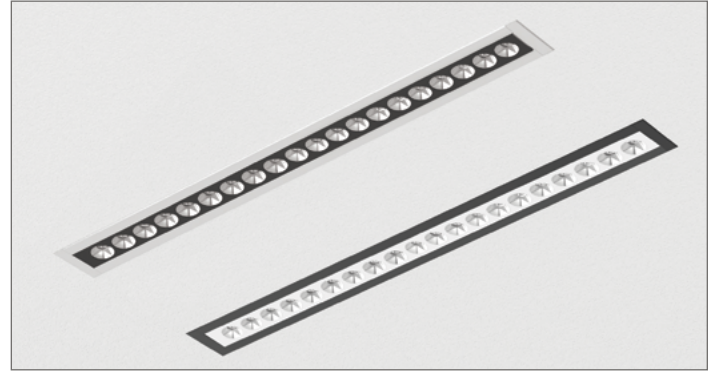
Remote Driver Boxes (Optional) To create a clean and organized power solution for multiple fixture installations see our XBox Specification Guide. Reach out to a XICO Sales Representative to discuss you projects needs.



Fixture Mounted Drivers mount on top of the fixture. They provide 0–10V, DALI, DMX, and TRIAC dimming. Also compatible with Cooper and other common building control systems, including PoE and wireless.



Square MCOs



Round MCOs

FIXTURE MOUNTING & CONNECTIONS

Mounting Type

Drywall Mount

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

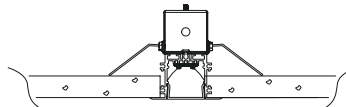
Power Cord

24" Cable Kit

White and Black

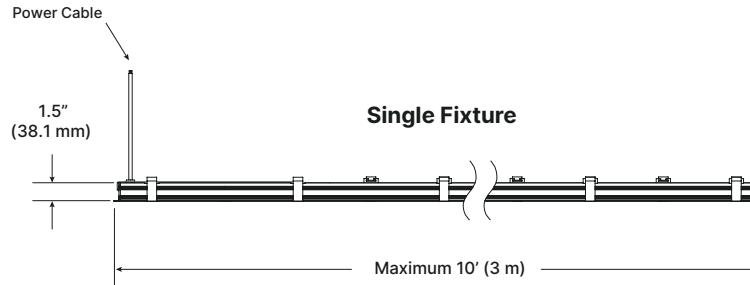
Mounting Option

DK - Drywall Kit

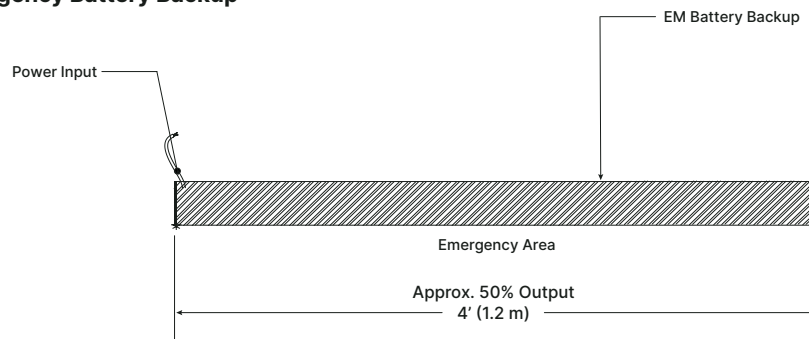


Standard Lengths & Continuous Runs

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.



Emergency Battery Backup



EM Area is Set to 4' (1.2 m) for All Fixture Lengths.
Fixtures Normal Power Maximum Output Level Set at Factory

Battery Power: 10 W
Illumination Time: 90 minutes
Light Output approx 300 lm/ft or 1200-1300 Total Lumens*
Recharge Time: 24 Hours

*Light output may vary based on fixture output level ordered.

Declare.

**Micro Series
XICO Lighting**

Final Assembly: Woburn, Massachusetts, USA
Life Expectancy (yr): 10+ (yr)
End of Life Options: Recyclable (99%), Landfill (1%)

Ingredients:
Aluminum, poly(methyl methacrylate), 1,3-bisacryloylcarbohy-
dric acid, 1,3-bis(methyl ether) polymer with 1,4-methyl-1,4-
bisacryloylcarbohydic acid and 1,3-etheranhydride (Elasto, elast-
chemicals), Phenylenedimethanediol (Dow Chemicals), polymer with
2,2-bis[4-(4-methylphenyl)-6-tert-butyl-1,3-dioxane-5-carboxy] (Dow
Chemical), 2,2-bis[4-(4-methylphenyl)-6-tert-butyl-1,3-dioxane-5-carboxy] (Dow Chemicals),
phenylmethanediol (Dow Chemicals), Polyethylene Glycol, Capa-
citor, Resistor, Barium sulfate, Polyethylene, Thermoplastic, Silicon
Iron, Chromium, metallic, Gallium, Potassium, Titanium.

Using Building Challenge Criteria: Compliant

1-12 LEED Points
■ **MRCC** LEED LEF Approved
■ **MRCC** LEED LEF Preferred
■ Declared

1-10 Interior Performance Not Applicable
1-14 Performance Exceeding Not Applicable

XICO-0020
ENR April 2012
Original Issue Date: 2012

INTERNATIONAL LEADING PLAYERS INSTITUTE www.sustainableplay.com

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.



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.

UL LISTED CSA RoHS 2002/95/EC IC RATED

Declare Listed and Red List Free

Low carbon, environmentally conscious packaging and shipping methods

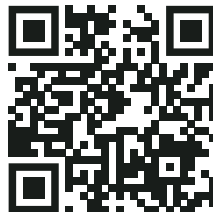
Suitable for Dry and Damp Locations, indoor use only

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

All XICO products and associated optics and LED engines are assembled at our factory in Woburn, MA

Each product is engineered reliability and quality assurance tested

Business Terms



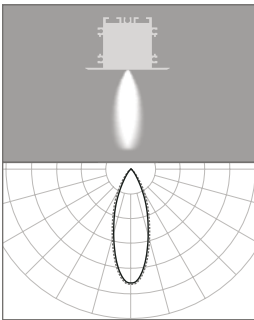
XICO®

OPTIC	BEAM PATTERN		
	DMCO45	DMCO35	DMCO25
Micro Cavity Optics (MCO)	●	●	●

DIRECT PHOTOMETRICS (cont.)

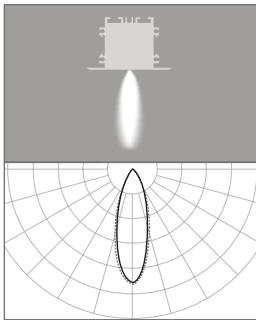
Static White Light

DMCO45: Micro Cavity Optic 45°



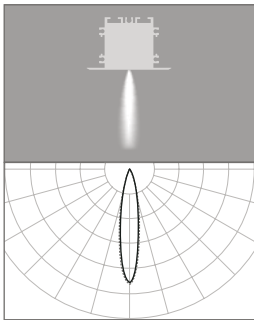
Length 48"
LED HE80
CRI/CCT 80+/3500K
Lumens 3,000
lm/ft 749
Watts 37
W/ft 9
LPW 82

DMCO35: Micro Cavity Optic 35°



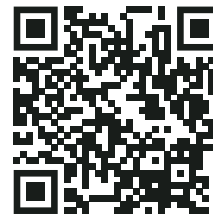
Length 48"
LED HE80
CRI/CCT 80+/3500K
Lumens 3,000
lm/ft 749
Watts 37
W/ft 9
LPW 82

DMCO25: Micro Cavity Optic 25°



Length 48"
LED HE80
CRI/CCT 80+/3500K
Lumens 3,000
lm/ft 749
Watts 37
W/ft 9
LPW 82

PATENTS & TRADEMARKS



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

Utility Patents

United States	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
Great Britain	GB2492541, GB2492542, GBEP0800658, GB2492398
Japan	JP03958359
Netherlands	NLEP0800658
Taiwan	FTW360813B
European Patent Organization	EP0843203, EP0843203

Design Patents

United States	USD719282, USD717973, USD669606, USD669608, USD669609, USD669614, USD663056
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The Patent Corporation Treaty

World Intellectual Property Organization	WO2015200268
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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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