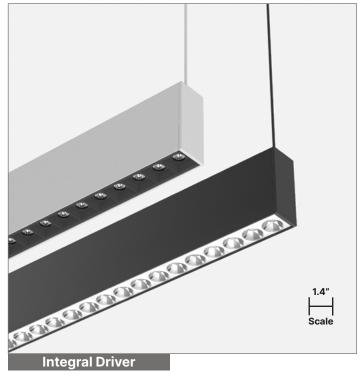
MICROBeam MCO Pendant



1.4" Low-Profile Linear LED Pendant Mount





Features & Benefits

Exceptional PerformanceUp 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**







Project Name FIXTURE ORDERING Fixture Type 1) FIXTURE DESIGN

PRODUCT	LEN	GIH	FIXIU	RE FINISH	ENL	CAP	MICRO CAVITY	Y OPTICS (MCO) FINISH
MBE140MCO-P								
1.4" Low-Profile	2	2'	MWH	Matte White (RAL9003)	E1	Flat End Cap	OSQMCOWH	Square MCO, White
Linear LED	4	4'	MBK	Matte Black (RAL9005)			OSQMCOBK	Square MCO, Black
Pendant Mount	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#				
	Χ	Specify X' Y"						

2) LED LIGHT ENGINE

CRI		CCT		DIRECT B	EAM PATTERN	DIRE	CT OUTPUT	INDIRECT	BEAM PATTERN	INDIF	RECT OUTPUT
S80 S90 HE80 HE90 HD95 SUN SBIOS DBIOS TBIOS	Std. 80 CRI Std. 90 CRI High-Eff. 80 CRI High-Eff. 90 CRI High-Def. 95 CRI Full SunLike Static BIOS Dynamic BIOS Tunable White BIOS	22 27 30 35 40 50 3022D 3527D	2200K 2700K 3000K 3500K 4000K 5000K 3000K to 2200K Dim-to-Warm 3500K to 2700K Dim-to-Warm Specify CCT	DMC045 DMC035 DMC025 X_	Micro Cavity Optics 45° Micro Cavity Optics 35° Micro Cavity Optics 25° Specify Beam	35 50 75 100 X_	350 lm/ft 500 lm/ft 750 lm/ft 1,000 lm/ft Specify lm/ft	NN ILAM IBW120 IFT150 IA6040 IA4560	Not Needed Lambertian Batwing 120° FlatTop 150° Asymmetric 60° at 40° Tilt Asymmetric 45° at 60° Tilt Specify Beam	NN 35 50 75 100 X_	Not Needed 350 lm/ft 500 lm/ft 750 lm/ft 1,000 lm/ft Specify lm/ft

3) FIXTURE POWER & CONTROLS

LINE \	LINE VOLTAGE (DC) INTEG		INTEGRAL DRIVER (POWER)		GENCY BACKUP	CONTR	CONTROL SYSTEM ²		
UNV 347	120/277V 347V	FDND FD01 FD10 FDDA FDDX FDTR LD01 LD05 ED00	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 eldoLED 0-10V 0.1% Dim	NN EMC EMB	Not Needed Emergency Circuit Emergency Battery (10 W — Onboard) Specify Backup	NN LUT COO CAS X_	Not Needed Lutron Cooper Casambi Specify Control System		
		ED01 EDDA X_	eldoLED 0-10V 1% Dim eldoLED DALI 0.1% Dim Specify Driver						

4) FIXTURE MOUNTING & CONNECTIONS

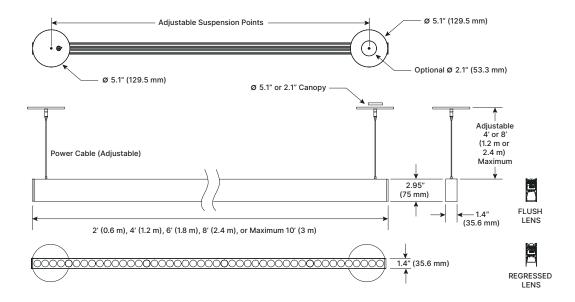
MOL	JNTING TYPE	CANOPY		POWER C	CORD
DJ	Drywall/J-Box Mount	RCWH52	5" and 2" Round Canopy, White	S48WH	48" White Cable Kit
T1	9/16" Flat T-Bar Mount	RCBK52	5" and 2" Round Canopy, Black	S48BK	48" Black Cable Kit
T2	9/16" Bolt Slot T-Bar Mount			S96WH	96" White Cable Kit
Т3	15/16" Flat T-Bar Mount			S96BK	96" Black Cable Kit

NOTES

Footnotes: 1 Continuous Regressed Lens ships on a roll for seamless lens installation. 2 The control system and driver must be compatible.

FIXTURE DESIGN

Dimensions





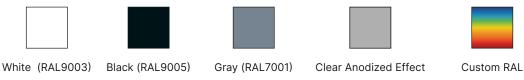
To download BIM (Revit) Files, please click or scan the QR Code.

Length

Length Options 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 Square and Round Micro Cavity Optics

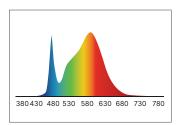
Lens Material Patented SmartOptics® made from Acrylic (PMMA)

Voltage

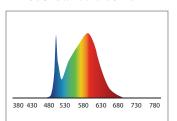
Fixture Voltage (AC) 120–277 VAC and 347 VAC, 50/60 Hz

LED SELECTION GUIDE

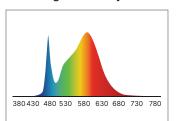
S80: Standard 80+ CRI



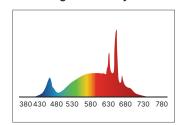
S90: Standard 90+ CRI



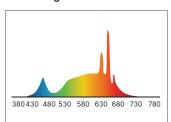
HE80: High-Efficiency 80+ CRI



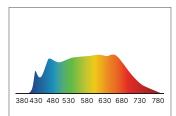
HE90: High-Efficiency 90+ CRI



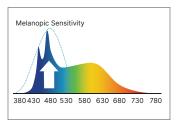
HD95: High-Definition 95+ CRI



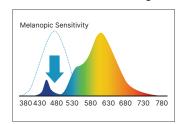
SUN: Full Spectrum "SunLike"



HCD: Human Centric Day



HCN: Human Centric Night



Static White Light (LED Light Engine Only)

			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

	Li W Lineary 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

BIOS TECHNOLOGY

Choosing Your BIOS Solution

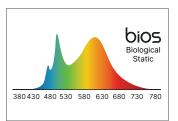


To learn more about BIOS Technology, please click or scan the QR Code.

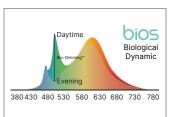


BIOS is offered in four Circadian LED Solutions with BIOS SkyBlue Technology — Biological Static, Biological Dynamic, Biological Tunable, and Biological Dim-to-Warm. BIOS SkyBlue™ Technology includes a blue peak at 490nm that provides an effective daytime circadian signal using standard architectural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

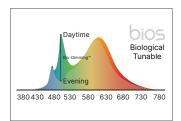
BIOS Static



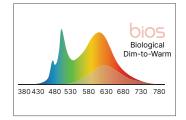
BIOS Dynamic



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

			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		DTW DALI Control of Intensity & CCT on Separate	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 (Onboard), 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

Integral Drivers

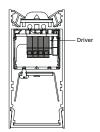
Other

Factory Non-Dimming, Factory 0-10V 1% Dim, Factory 0-10V 10% 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)

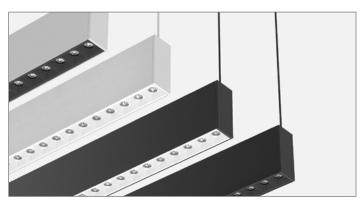
Lutron Hi-Lume 1% Dimming and 5-Series 5% Dimming

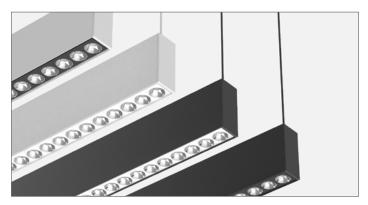
 Cooper
 Compatible driver

 Casambi (wireless)
 Compatible driver



Drivers are integral to the fixture and are included. 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

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/J-Box Mount Installs onto a surface via a junction box. Available with a range of accessories, mounts and inserts

that provide easy customization of visual appearance and performance enhancements.

Canopy

Canopy Sizes & Shapes 5" and 2", Round

Canopy Colors

White (RAL9003) Black (RAL9005)

Canopy Material Powder Coated Steel

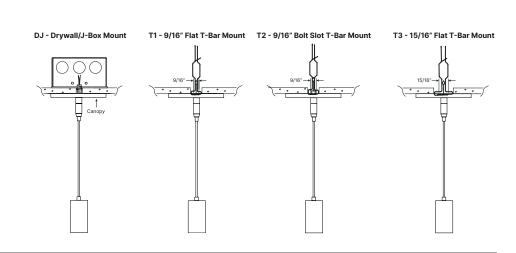
Power Cords

48" Cable Kit White and Black
96" Cable Kit White and Black

Mounting Options

Typically suspended at a distance of between 24" and 72". Supplied hardware includes:

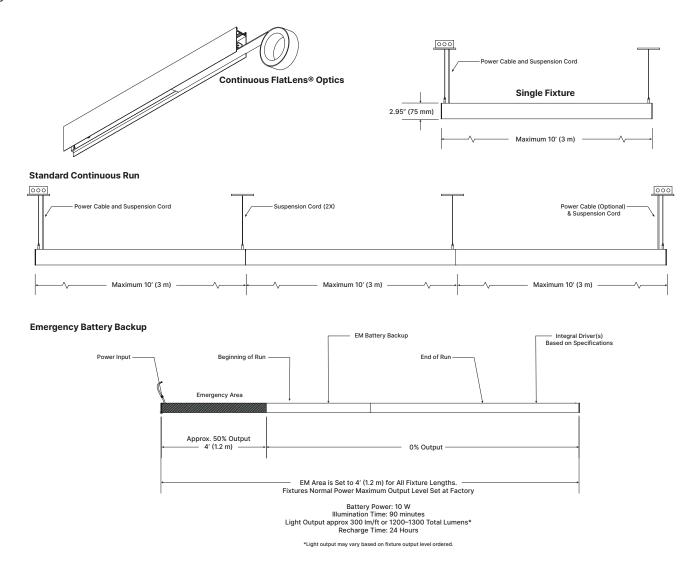
- Cable length adjustable at fixture level
- Standard 96" cord length or custom length
- Internal brackets to eliminate light leakage at joints



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.

Lens can be supplied in a maximum 250' roll length with Continuous FlatLENS Optics to be installed on-site for a seamless light surface.



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







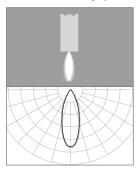
For details on our warranty and business terms, please click or scan the QR Code.

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

DIRECT PHOTOMETRICS

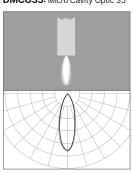
Static White Light

DMCO45: Micro Cavity Optic 45°



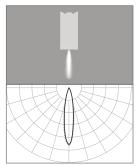
Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/ft	749
Watts	37
W/ft	9
LPW	82

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

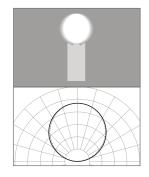
DMCO25: Micro Cavity Optic 25°



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

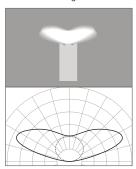
INDIRECT PHOTOMETRICS

ILAM: Lambertian



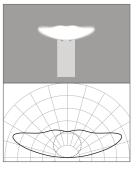
Length 48" LED HE80 CRI/CCT 80+/3500K 4,000 Lumens lm/ft 1,000 Watts 28 W/ft LPW 150

IBW120: Batwing 120°



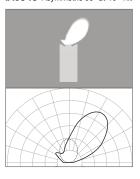
Length	48"
LED	HE80
CRI/CCT	80+/3500
Lumens	4,000
lm/ft	1,009
Watts	26
W/ft	6.4
LPW	158

IFT150: FlatTop 150°



Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	4,000
lm/ft	1,000
Watts	28
W/ft	7
LPW	150

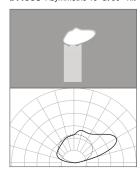
IA6040: Asymmetric 60° at 40° Tilt



Length	48"
LED	HE80
CRI/CCT	80+/3500
Lumens	4,000
lm/ft	991
Watts	28
W/ft	7
LPW	143

Static White Light

IA4560: Asymmetric 45° at 60° Tilt



Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	4,000
lm/ft	991
Watts	28
W/ft	7
LPW	143

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

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

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

