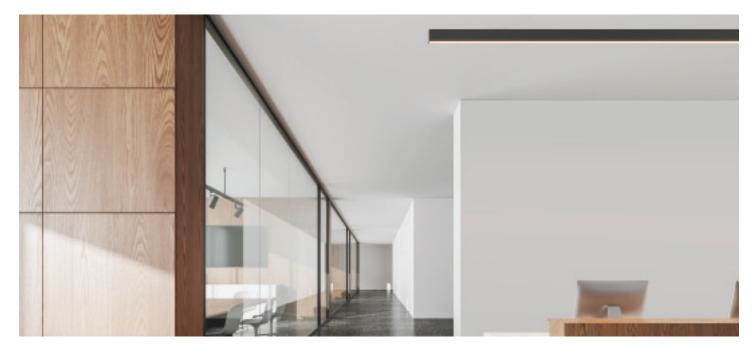
MICROBeam Surface



1.4" Low-Profile Linear LED Surface 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**







FIXTURE ORDERING **Project Name Fixture Type** 1) FIXTURE DESIGN **PRODUCT LENGTH FINISH END CAP OPTIC** MBE140-S 2' 1.4" Low-Profile MWH Matte White (RAL9003) Flat End Cap OFL Flush Lens Linear LED 4 4' MBK Matte Black (RAL9005) ORL Regressed Lens Surface Mount 6 6' MGR Matte Gray (RAL7001) **OCRL** Continuous Regressed Lens¹ 8 8' CAE Clear Anodized Effect **OMBWH** Micro Baffle, White 10 10' RAL Specify RAL# (Requires Regressed Lens) **OMBBK** Specify X', Y' Micro Baffle, Black (Requires Regressed Lens) 2) LED LIGHT ENGINE **DIRECT OUTPUT** CRI CCT **DIRECT BEAM PATTERN** Std. 80 CRI S80 22 2200K 350 lm/ft DLAM Lambertian 35 S90 2700K DBW60 Batwing 60° Std. 90 CRI 27 50 500 lm/ft High-Eff. 80 CRI 30 3000K DDA70 Double Asymmetric 70° HE80 75 750 lm/ft HE90 High-Eff. 90 CRI 35 3500K DA3015 Asymmetric 30° at 15° Tilt 100 1,000 lm/ft HD95 High-Def. 95 CRI 40 4000K DA3010 Asymmetric 30° at 10° Tilt X_ Specify Im/ft SUN Full SunLike DM70 Medium 70° 50 5000K 3000K to 2200K Dim-to-Warm Narrow 40° SBIOS Static BIOS 3022D **DN40** Dynamic BIOS 3500K to 2700K Dim-to-Warm Specify Beam **DBIOS** 3527D X_ **TBIOS** Tunable White BIOS Specify CCT 3) FIXTURE POWER & CONTROLS LINE VOLTAGE (DC) INTEGRAL DRIVER (POWER) EMERGENCY BACKUP CONTROL SYSTEM² UNV 120/277V **FDND** Factory Non-Dimming NN Not Needed NN Not Needed Factory 0-10V 1% Dim FD01 **EMC Emergency Circuit** LUT 347V Lutron 347 Factory 0-10V 10% Dim FD10 coo **EMB Emergency Battery** Cooper **FDDA** Factory DALI 0.1% Dim (10 W — Onboard) CAS Casambi **FDDX** Factory DMX Dim X_ Specify Backup X_ Specify Control System **FDTR** Factory TRIAC Dim Lutron Hi-Lume 1% Dim LD01 LD05 Lutron 5-Series 5% Dim FD00 eldoLED 0-10V 0.1% Dim ED01 eldoLED 0-10V 1% Dim **EDDA** eldoLED DALI 0.1% Dim X_{-} Specify Driver 4) FIXTURE MOUNTING & CONNECTIONS MOUNTING TYPE POWER CORD MOUNTING KIT S24WH DJ Drywall/J-Box Mount 24" White Cable Kit SSMB Stainless Steel Surface Mounting Bracket 24" Black Cable Kit T1 9/16" Flat T-Bar Mount S24BK T2 9/16" Bolt Slot T-Bar Mount 15/16" Flat T-Bar Mount **NOTES**

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

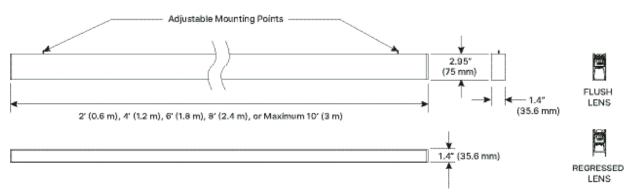


FIXTURE DESIGN

Dimensions



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



Length

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

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 Flush, Regressed, Continuous Regressed, and Micro Baffle (Requires Regressed Lens)

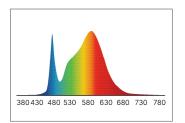
Patented SmartOptics® made from Acrylic (PMMA) **Lens Material**

Voltage

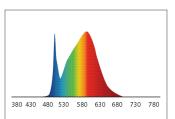
Fixture Voltage (AC) 120-277 VAC and 347 VAC, 50/60 Hz

LED SELECTION GUIDE

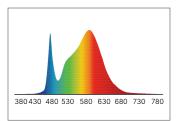
S80: Standard 80+ CRI



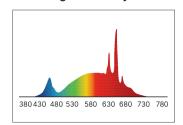
S90: Standard 90+ CRI



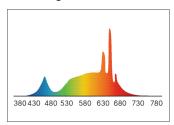
HE80: High-Efficiency 80+ CRI



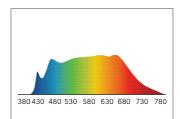
HE90: High-Efficiency 90+ CRI



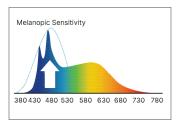
HD95: High-Definition 95+ CRI



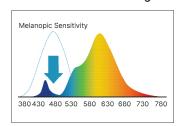
SUN: Full Spectrum "SunLike"



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

Er W Ernoacy 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

bios

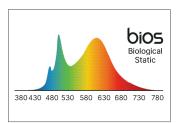
Choosing Your BIOS Solution

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.

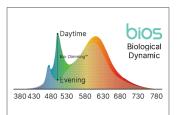
To learn more about BIOS Technology, please click or scan the QR Code.



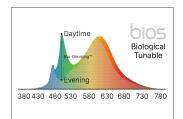
BIOS Static



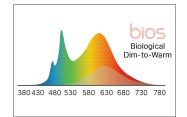
BIOS Dynamic



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 MODULE TECHNOLOGY 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	BIODIM1	0-10V Intensity DDIM1 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				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

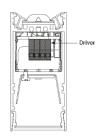
Other Factory Non-Dimming, Factory 0-10V 1% Dim, Factory 0-10V 10% Dim, Factory DALI 0.1% Dim, Factory

DMX Dim, Factory TRIAC Dim, eldoLED 0-10V 0.1% Dim, eldoLED 0-10V 1% Dim, eldoLED DALI 0.1% Dim,

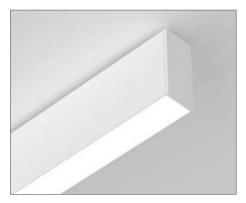
and other drivers are available, consult factory (not all integral)

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

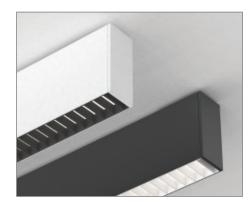
Cooper Compatible driver Casambi (wireless) Compatible driver



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.







Flush Lens Regressed Lens Micro Baffles

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.

Power Cords

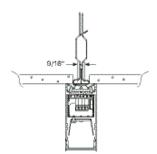
24" Cable Kit White and Black

Mounting Kit

Surface Mounting Bracket Stainless Steel

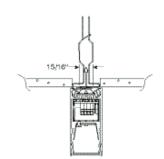
Mounting Options

DJ - Drywall/J-Box Mount



T1 - 9/16" Flat T-Bar Mount



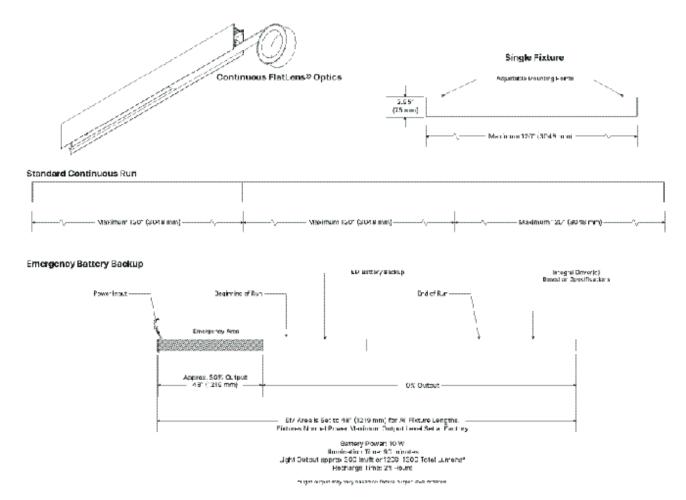


T3 - 15/16" Flat T-Bar Mount

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







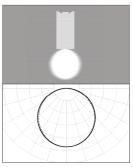
For details on our warranty and business terms, please click or scan the QR Code.

	BEAM PATTERN						
OPTIC	DLAM	DBW60	DDA70	DA3015	DA3010	DM55	DN40
Flush Lens	•	•	•	•	•	•	•
Regressed Lens	•	•	•	•	•	•	•
Micro Baffle	•	•	•	•	•	•	•

DIRECT PHOTOMETRICS

Static White Light

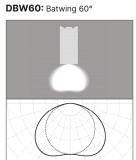
DLAM: Lambertian



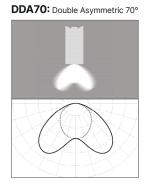
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Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/ft	745
Watts	22.5
W/ft	5.6

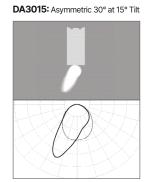
133



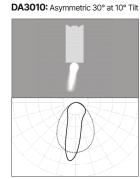
Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/ft	758
Watts	21
W/ft	5.4
LPW	141



Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/ft	750
Watts	25
W/ft	6.2
LPW	123



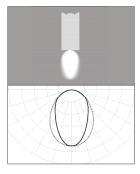
Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/ft	757
Watts	23
W/ft	5.8
LPW	131



Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/ft	754
Watts	23
W/ft	5.8
LPW	130

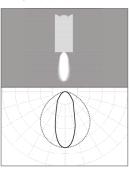
DM70: Medium 70°

LPW



Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/ft	752
Watts	20
W/ft	5
LPW	149





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

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

