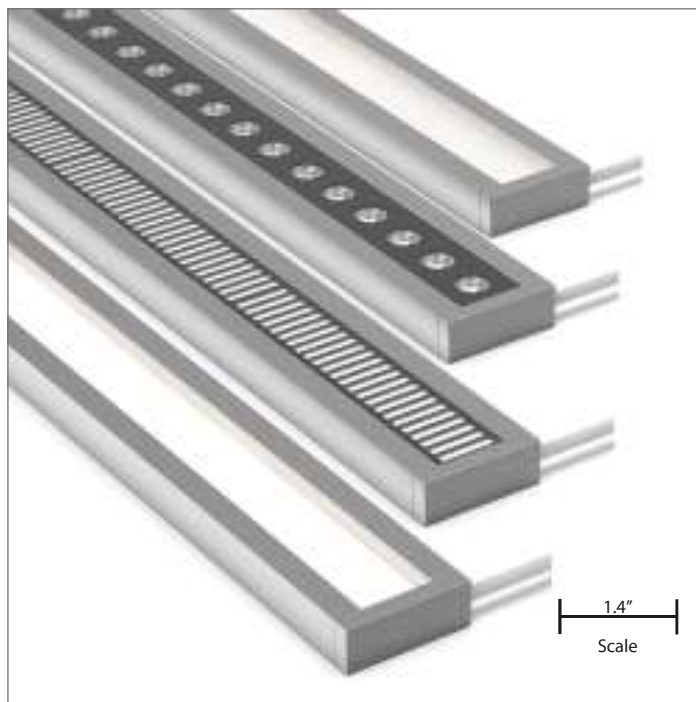


MICROFlat140

1.4" x 0.5" Low-Profile Flat LED Linear



Remote Driver

Features & Benefits

Exceptional Performance

1.4" x 0.5" fixture delivering up 1,000 lm/ft at 150 lm/W.

Wide Range of LED Selections

80/90/95+ CRI, 2200K to 5000K CCT
Static, Tunable White, Dim-to-Warm, and RGBW.

Designed with Options

Wide choice of SmartBeam® lighting distributions, , 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	MOUNTING	LENGTH	FINISH	DAISY CHAIN
MFL140				
1.4" Low-Profile Linear LED Flat Rail	SMC Surface Mount Clip SMM Surface Mount Magnet TC1 9/16" Flat T-Bar Mount Clip TC2 9/16" Bolt Slot T-Bar Mount Clip TC3 15/16" Flat T-Bar Mount Clip	1FT 1ft Nominal 2FT 2ft Nominal 4FT 4ft Nominal 6FT 6ft Nominal 8FT 8ft Nominal X_ Specify X, Y"	PMW Powder Coated Finishes PMB Matte White (RAL9003) PMG Matte Black (RAL9005) PCAE Matte Gray (RAL7001) RAL_ Clear Anodized Effect Specify RAL#	NDC No Daisy Chain (Single cable in) YDC Yes Daisy Chain (Cable in and cable out. Fixtures can be connected together)

2) LED LIGHT ENGINE & OPTICS

CRI	CCT	OPTICS & BEAM PATTERN	BAFFLE	LUMEN OUTPUT
S80 Std. 80 CRI	22 2200K	LAM Lambertian	NN Not Needed	25 250 lm/ft
S90 Std. 90 CRI	27 2700K	BW60 Batwing 60°	BLB Black Linear Baffle	35 350 lm/ft
HE80 High-Eff. 80 CRI	30 3000K	M50 Medium 50°	WLB White Linear Baffle	50 500 lm/ft
HE90 High-Eff. 90 CRI	35 3500K	A4560 Asymmetric 45° at 60° Tilt	Note: Baffles not compatible with MCO optics	75 750 lm/ft
HD95 High-Def. 95 CRI	40 4000K	A4015 Asymmetric 40° at 15° Tilt		100 1,000 lm/ft
SUN Full SunLike	50 5000K	MCO35 Micro Cavity Optic 35°		X_ Specify lm/ft
RGBW Red, Green, Blue, White	3022D 3000K to 2200K Dim-to-Warm 3527D 3500K to 2700K Dim-to-Warm X_ Specify CCT			

3) FIXTURE POWER & CONTROLS

LINE VOLTAGE (DC)	REMOTE DRIVER (POWER)	EMERGENCY BACKUP	REMOTE DRIVER BOX ¹	CONTROL 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	RLDB² Remote Linear Driver Box (driver included by default)	LUT Lutron
	FD10 Factory 0-10V 10% Dim	EMB Emergency Battery (10 W — Remote)	RX2D² Optional Remote XBox2 Driver, Up to 2 Drivers	COO Cooper
	FDDA Factory DALI 0.1% Dim	X_ Specify Backup	RX3D² Optional Remote XBox3 Driver, Up to 3 Drivers	CAS Casambi
	FDDX Factory DMX Dim		RX5D² Optional Remote XBox5 Driver, Up to 5 Drivers	X_ Specify Control System
	FDTR Factory TRIAC Dim			
	LD01 Lutron Hi-Lume 1% Dim			
	LD05 Lutron 5-Series 5% Dim			
	ED00 eldoLED 0-10V 0.1% Dim			
	ED01 eldoLED 0-10V 1% Dim			
	EDDA eldoLED DALI 0.1% Dim			
	X_ Specify Driver			

4) CONNECTIONS & ACCESSORIES

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

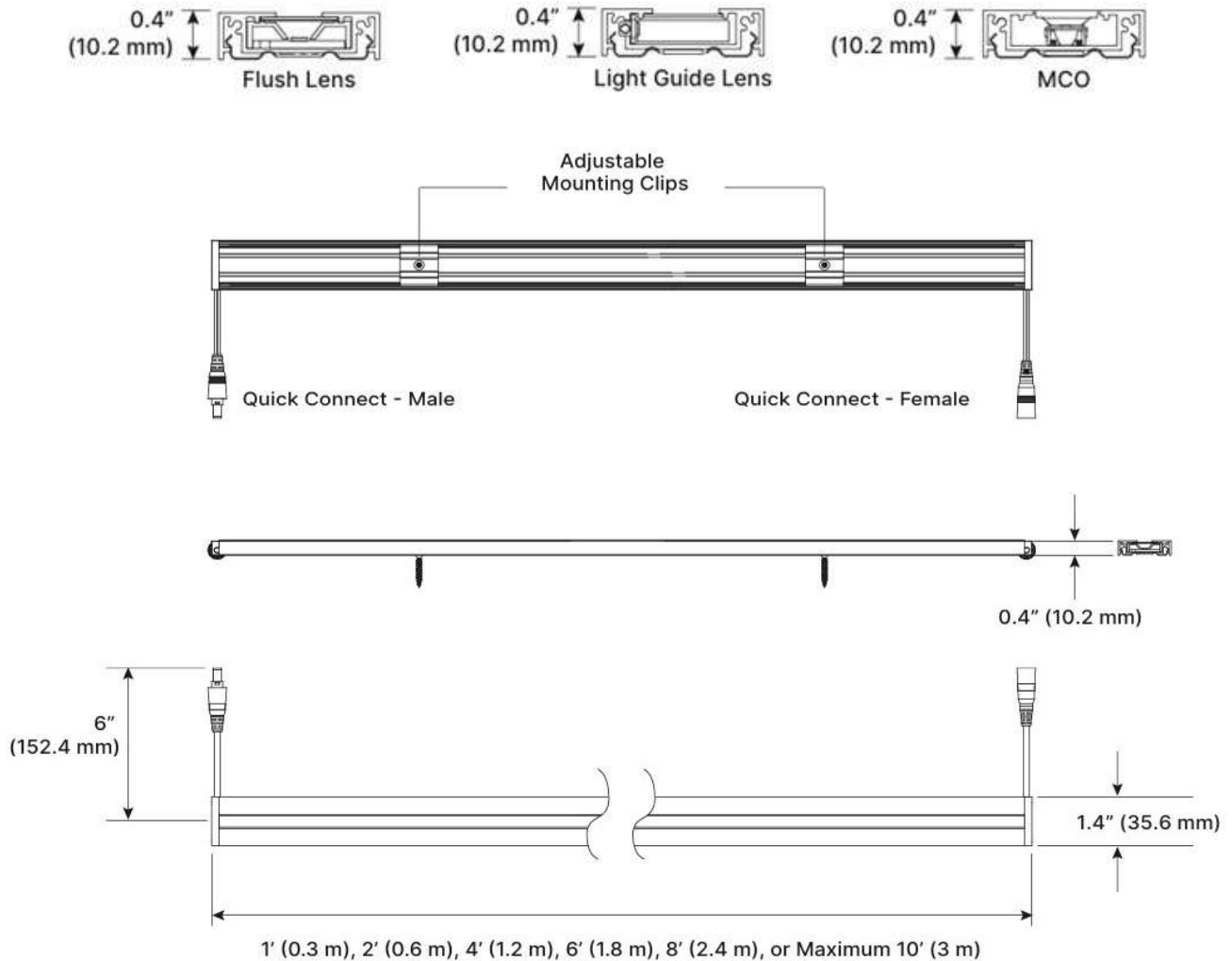
Project Name

Fixture Type

NOTES

FIXTURE DESIGN

Dimensions

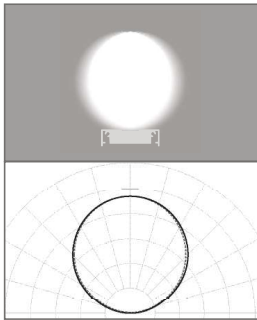


OPTIC	BEAM PATTERN						
	LAM	BW60	A4560	A4015	M50	N40	MCO
Dome Diffuser Lens				●	●	●	
Flat Lens	●	●			●		
Light Guide Lens	●	●	●				
Micro Cavity Optics (MCO)							●

PHOTOMETRICS

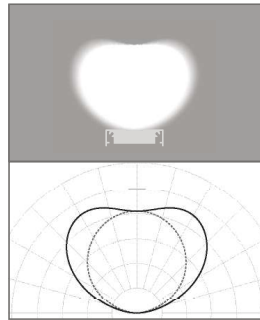
Static White Light

LAM: Lambertian



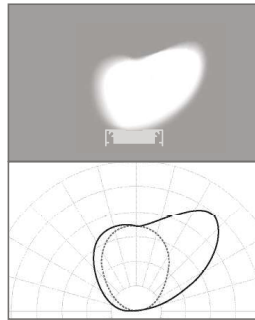
Length 48"
LED HE80
CRI/CCT 80+/3500K
Lumens 3,000
lm/ft 750
Watts 23.0
W/ft 5.8
LPW 130

BW60: Batwing 60°



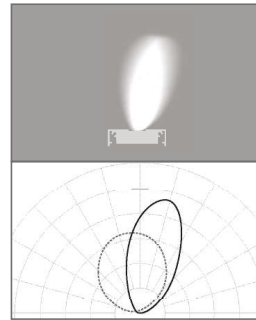
Length 48"
LED HE80
CRI/CCT 80+/3500K
Lumens 3,000
lm/ft 750
Watts 20.1
W/ft 5.0
LPW 149

A5560: Asymmetric 45° at 60° Tilt



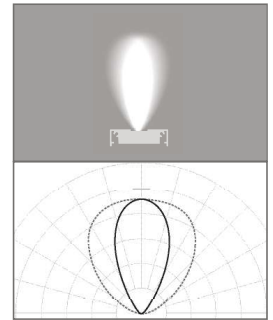
Length 48"
LED HE80
CRI/CCT 80+/3500K
Lumens 3,000
lm/ft 750
Watts 20.1
W/ft 5.0
LPW 149

A4015: Asymmetric 40° at 15° Tilt



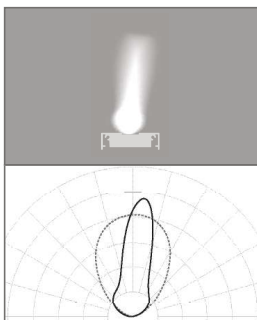
Length 48"
LED HE80
CRI/CCT 80+/3500K
Lumens 3,000
lm/ft 750
Watts 20.1
W/ft 5.0
LPW 149

M50: Medium 50°



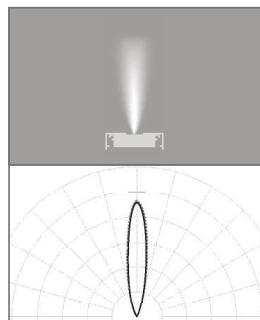
Length 48"
LED HE80
CRI/CCT 80+/3500K
Lumens 3,000
lm/ft 750
Watts 20.1
W/ft 5.0
LPW 149

N40: Narrow 40°



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
LPW 82

Length

Length Options 1', 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

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)

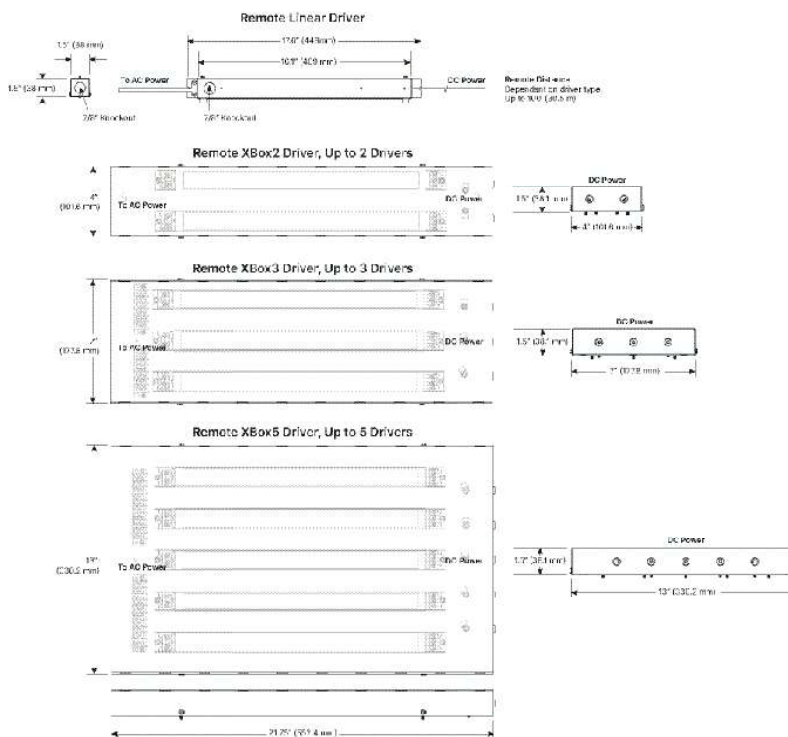
120–277 VAC and 347 VAC, 50/60 Hz



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

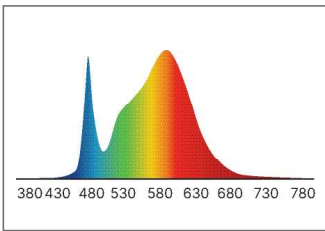
REMOTE DRIVER BOX

Dimensions

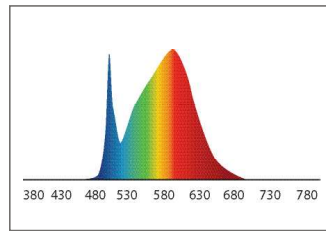


LED SELECTION GUIDE

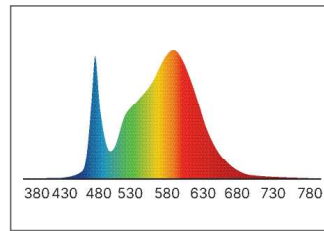
S80: Standard 80+ CRI



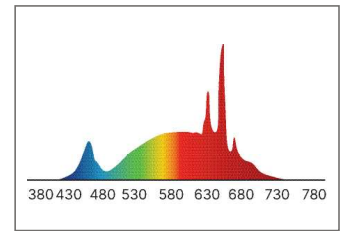
S90: Standard 90+ CRI



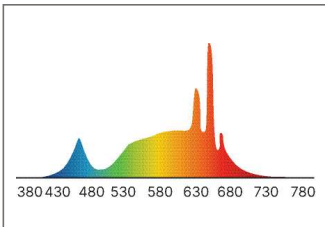
HE80: High-Efficiency 80+ CRI



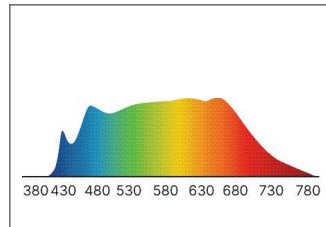
HE90: High-Efficiency 90+ CRI



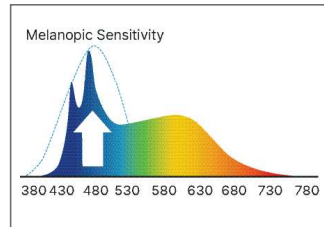
HD95: High-Definition 95+ CRI



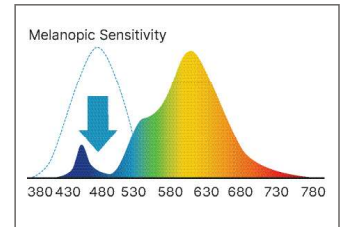
SUN: Full Spectrum "SunLike"



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

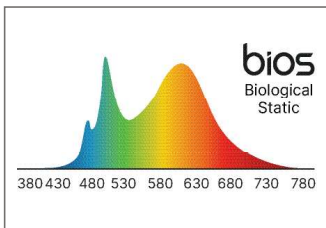
BIOS is offered in four Circadian LED Solutions with BIOS SkyBlue Technology — Biological Static, Biological Dynamic, Biological Tunable, and Biological Dim-to-Warm. BIOS SkyBlue™ Technology includes a blue peak at 490nm that provides an effective daytime circadian signal using standard architectural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



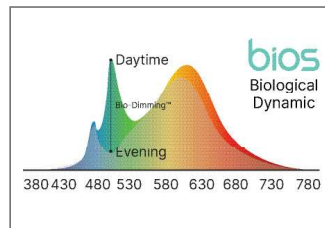
To learn more about BIOS Technology, please click or scan the QR Code.



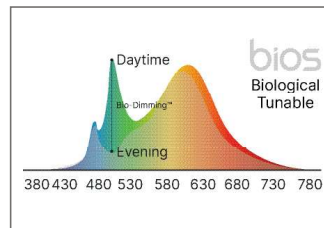
BIOS Static



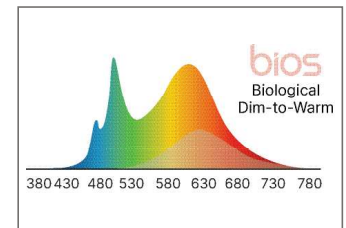
BIOS Dynamic



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 (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)

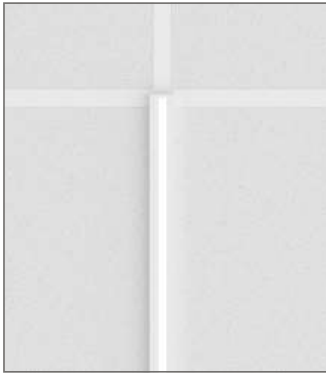
Lutron Hi-Lume 1% Dimming and 5-Series 5% Dimming

Cooper Compatible driver

Casambi (wireless) Compatible driver

XBox

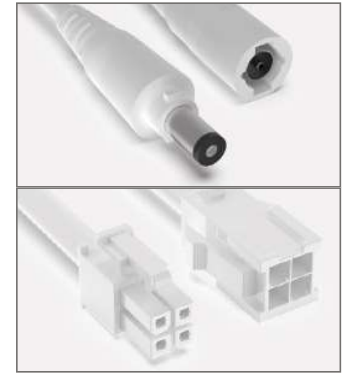
Remote Driver Boxes (Optional) To create a clean and organized power solution for multiple fixture installations see our Xbox Specification Guide. Reach out to a XICO Sales Representative to discuss your projects needs.



T-Bar Mount



Surface 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

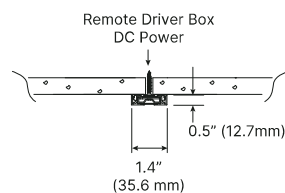
Mounting Kit

Surface Mounting Bracket

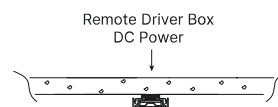
Stainless Steel

Mounting Options

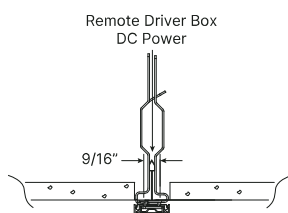
SMC - Surface Mount Clip



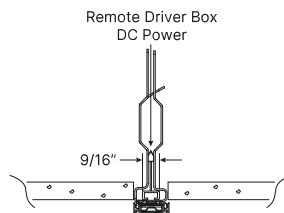
SMM - Surface Mount Magnet



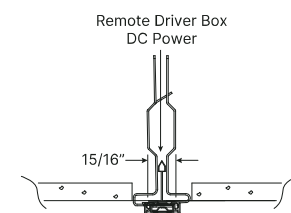
TC1 - 9/16" Flat T-Bar Mount Clip



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

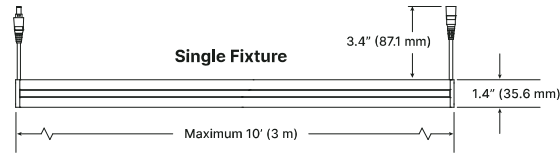


TC3 - 15/16" Flat T-Bar Mount Clip

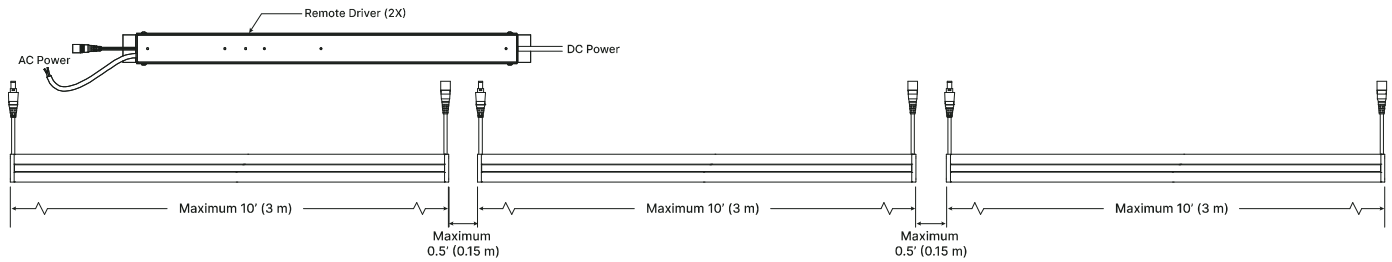


Standard Lengths & Continuous Runs

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.



Standard Continuous Run



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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