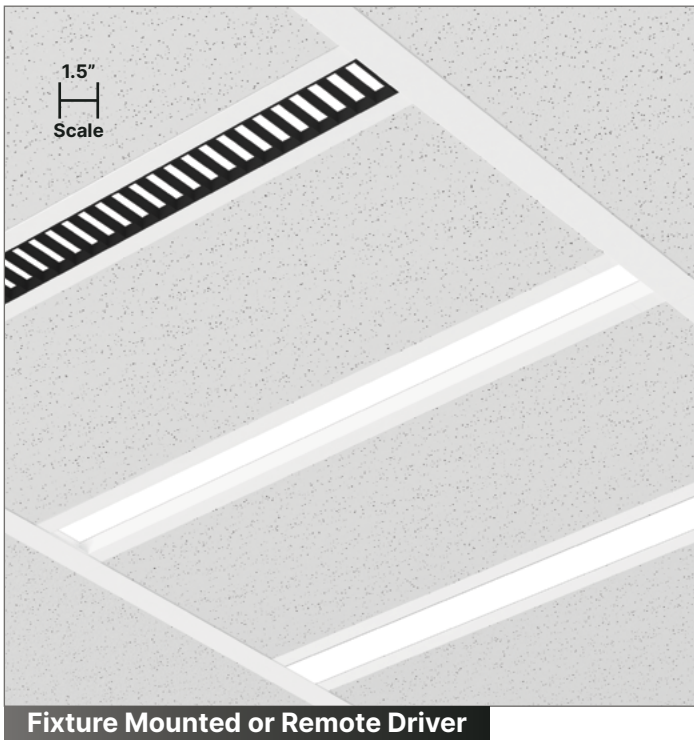


# MICROSlot T-Bar

## 1.5" Low-Profile Linear LED T-Bar 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	FINISH	OPTIC
<b>MSL-RT</b>			
1.5" Linear LED	2 2'	<b>MWH</b> Matte White (RAL9003)	<b>OFL</b> Flush Lens
T-Bar Mount	4 4'	<b>MBK</b> Matte Black (RAL9005)	<b>ORL</b> Regressed Lens
	6 6'	<b>MGR</b> Matte Gray (RAL7001)	<b>OMBWH</b> Micro Baffle, White
	8 8'	<b>CAE</b> Clear Anodized Effect	(Requires Regressed Lens)
	10 10'	<b>RAL_</b> Specify RAL#	<b>OMBBK</b> Micro Baffle, Black
	X_ Specify X', Y"		(Requires Regressed Lens)

### 2) LED LIGHT ENGINE

CRI	CCT	DIRECT BEAM PATTERN	DIRECT OUTPUT
<b>S80</b> Std. 80 CRI	<b>22</b> 2200K	<b>DLAM</b> Lambertian	<b>35</b> 350 lm/ft
<b>S90</b> Std. 90 CRI	<b>27</b> 2700K	<b>DBW60</b> Batwing 60°	<b>50</b> 500 lm/ft
<b>HE80</b> High-Eff. 80 CRI	<b>30</b> 3000K	<b>DDA70</b> Double Asymmetric 70°	<b>75</b> 750 lm/ft
<b>HE90</b> High-Eff. 90 CRI	<b>35</b> 3500K	<b>DA3015</b> Asymmetric 30° at 15° Tilt	<b>100</b> 1,000 lm/ft
<b>HD95</b> High-Def. 95 CRI	<b>40</b> 4000K	<b>DA3010</b> Asymmetric 30° at 10° Tilt	<b>X_</b> Specify lm/ft
<b>SUN</b> Full SunLike	<b>50</b> 5000K	<b>DM55</b> Medium 55°	
<b>SBIOS</b> Static BIOS	<b>3022D</b> 3000K to 2200K Dim-to-Warm	<b>DN40</b> Narrow 40°	
<b>DBIOS</b> Dynamic BIOS	<b>3527D</b> 3500K to 2700K Dim-to-Warm	<b>X_</b> Specify Beam	
<b>TBIOS</b> Tunable White BIOS	<b>X_</b> Specify CCT		

### 3) FIXTURE POWER & CONTROLS

LINE VOLTAGE (DC)	DRIVER LOCATION	DRIVER (POWER)	REMOTE DRIVER BOX <sup>1</sup>	EMERGENCY BACKUP	CONTROL SYSTEM <sup>3</sup>
<b>UNV</b> 120/277V	<b>FMD</b> Fixture Mounted Driver	<b>FDND</b> Factory Non-Dimming	<b>NN</b> Not Needed	<b>NN</b> Not Needed	<b>NN</b> Not Needed
<b>347</b> 347V	<b>RD</b> Remote Driver	<b>FD01</b> Factory 0-10V 1% Dim	<b>RLDB<sup>2</sup></b> Remote Linear Driver Box (driver included by default)	<b>EMC</b> Emergency Circuit	<b>LUT</b> Lutron
		<b>FD10</b> Factory 0-10V 10% Dim		<b>EMB</b> Emergency Battery (10 W — Onboard or Remote)	<b>COO</b> Cooper
		<b>FDDA</b> Factory DALI 0.1% Dim	<b>RX2D<sup>2</sup></b> Optional Remote XBox2 Driver, Up to 2 Drivers	<b>X_</b> Specify Backup	<b>CAS</b> Casambi
		<b>FDDX</b> Factory DMX Dim			<b>X_</b> Specify Control System
		<b>FDTR</b> Factory TRIAC Dim	<b>RX3D<sup>2</sup></b> Optional Remote XBox3 Driver, Up to 3 Drivers		
		<b>LD01</b> Lutron Hi-Lume 1% Dim			
		<b>LD05</b> Lutron 5-Series 5% Dim	<b>RX5D<sup>2</sup></b> Optional Remote XBox5 Driver, Up to 5 Drivers		
		<b>ED00</b> eldoLED 0-10V 0.1% Dim			
		<b>ED01</b> eldoLED 0-10V 1% Dim			
		<b>EDDA</b> eldoLED DALI 0.1% Dim			
		<b>X_</b> Specify Driver			

### 4) FIXTURE MOUNTING & CONNECTIONS

MOUNTING TYPE	POWER CORD
<b>T1</b> 9/16" Flat T-Bar Mount	<b>S24WH</b> 24" White Cable Kit
<b>T2</b> 9/16" Bolt Slot T-Bar Mount	<b>S24BK</b> 24" Black Cable Kit
<b>T3</b> 15/16" Flat T-Bar Mount	
<b>X_</b> Specify Mounting Type	

Footnotes: <sup>1</sup> Remote distance is dependent on driver type, up to 100' (30.5 m). <sup>2</sup> Creates a clean and organized power solution for multiple fixture installations.<sup>3</sup> The control system and driver must be compatible.

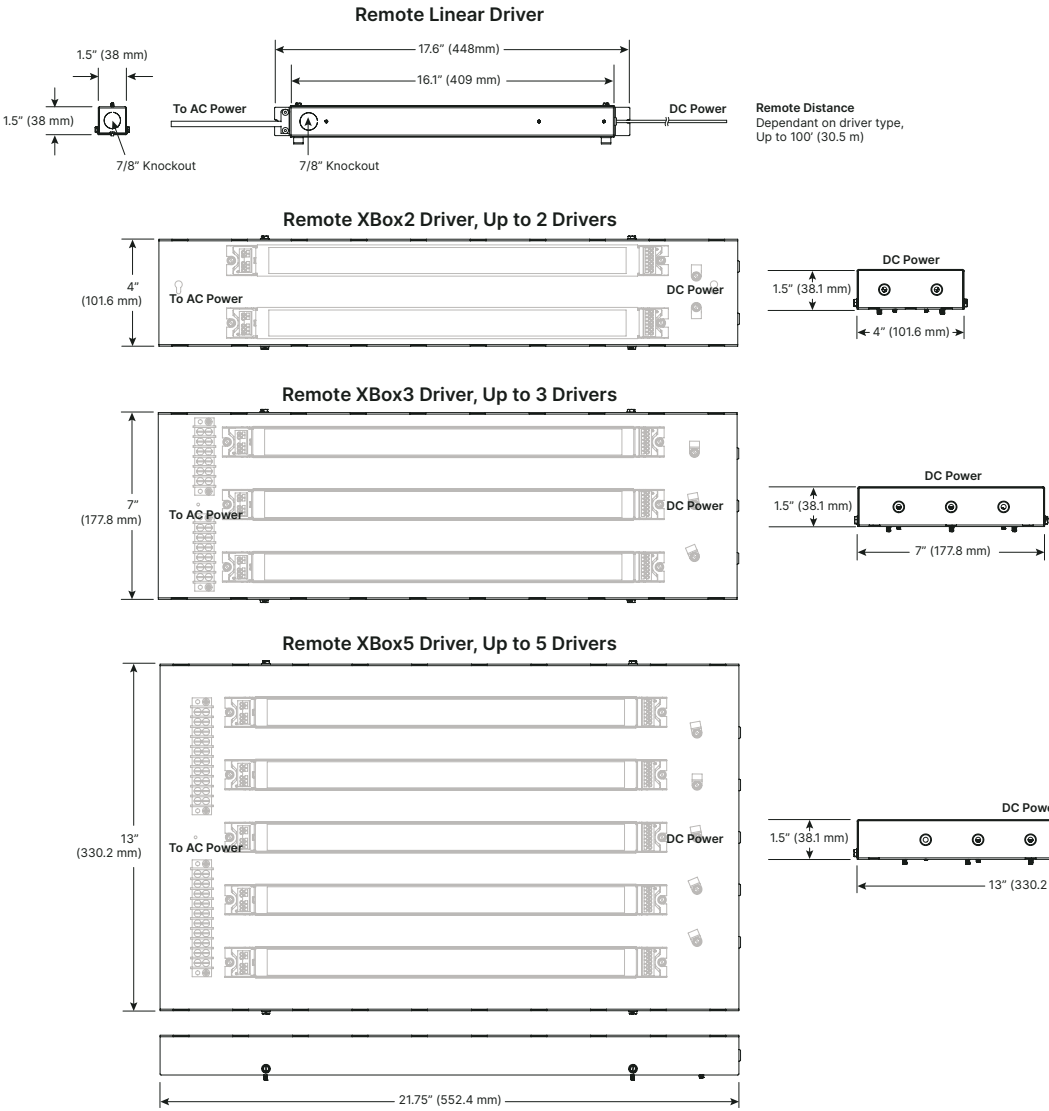
NOTES

Project Name

Fixture Type

REMOTE DRIVER BOX

Dimensions

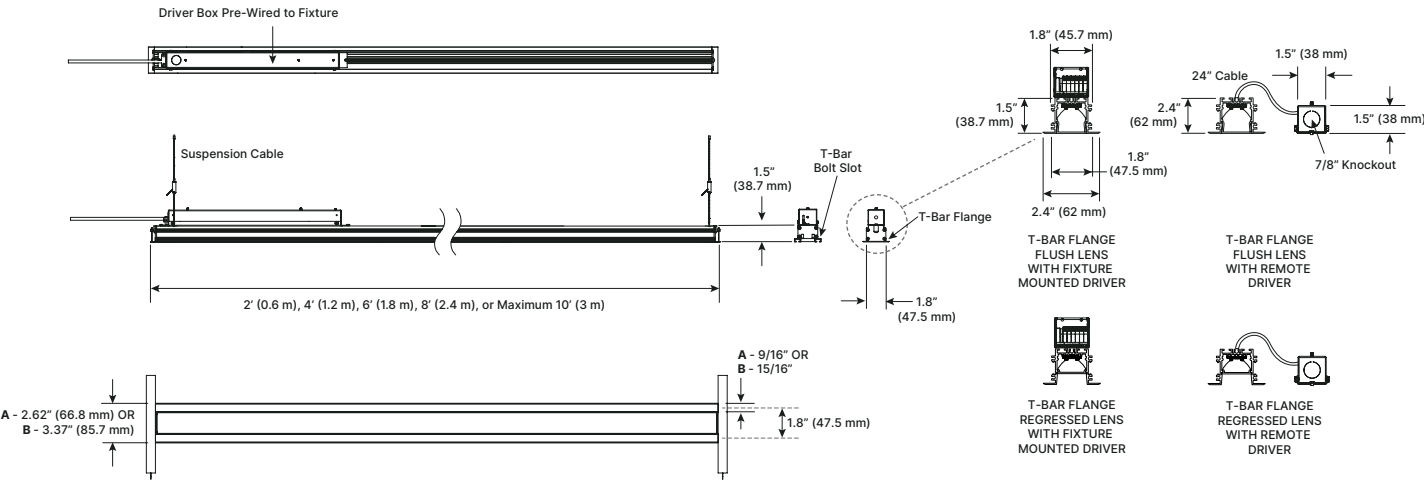


FIXTURE DESIGN

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 Flush, Regressed and Micro Baffle (Requires Regressed Lens)

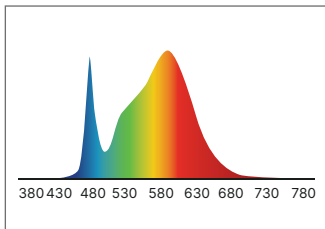
Lens Material Patented SmartOptics® made from Acrylic (PMMA)

Voltage

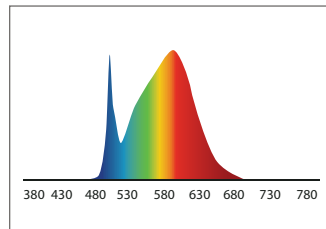
Fixture Voltage (AC) 120–277 VAC and 347 VAC, 50/60 Hz

## LED SELECTION GUIDE

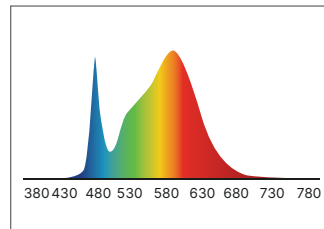
S80: Standard 80+ CRI



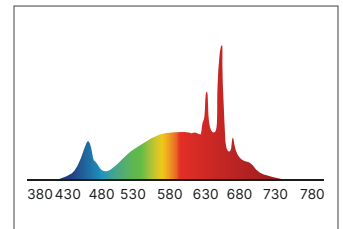
S90: Standard 90+ CRI



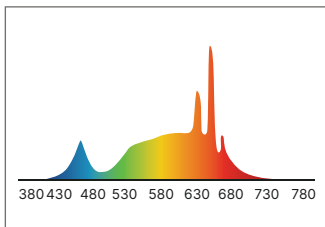
HE80: High-Efficiency 80+ CRI



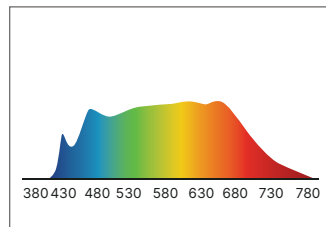
HE90: High-Efficiency 90+ CRI



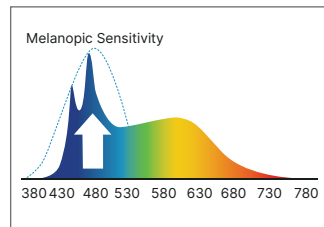
HD95: High-Definition 95+ CRI



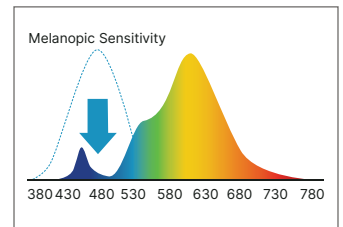
SUN: Full Spectrum "SunLike"



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

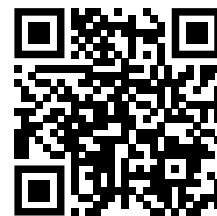
## BIOS TECHNOLOGY

### Choosing Your BIOS Solution

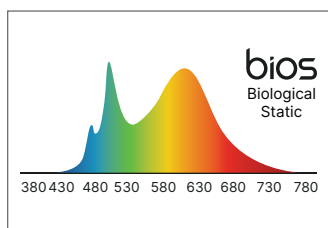
BIOS is offered in four Circadian LED Solutions with BIOS SkyBlue Technology — Biological Static, Biological Dynamic, Biological Tunable, and Biological Dim-to-Warm. BIOS SkyBlue™ Technology includes a blue peak at 490nm that provides an effective daytime circadian signal using standard architectural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

**bios**

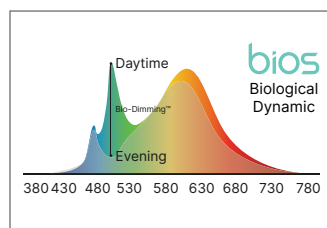
To learn more about BIOS Technology, please click or scan the QR Code.



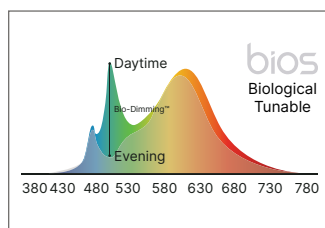
**BIOS Static**



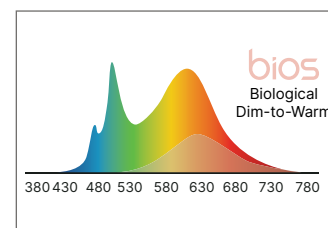
**BIOS Dynamic**



**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)

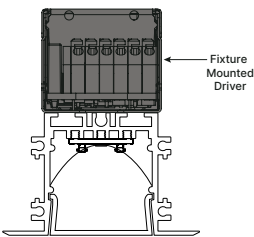
Lutron Hi-Lume 1% Dimming and 5-Series 5% Dimming

Cooper Compatible driver

Casambi (wireless) Compatible driver

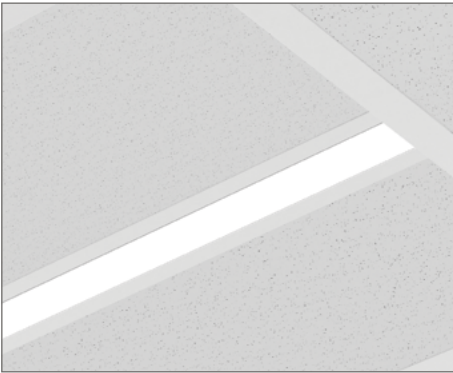
XBox

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.

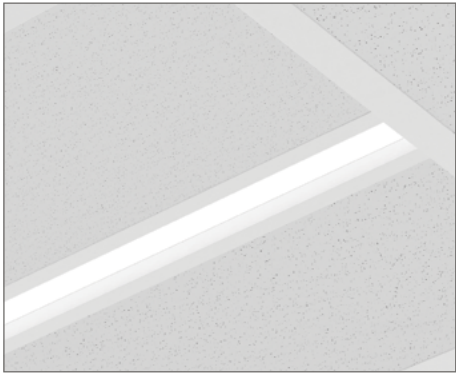


Fixture Mounted Drivers mount on top of the fixture. They provide 0–10V, DALI, DMX, and TRIAC dimming. Also compatible with Cooper and other common building control systems, including PoE and wireless.

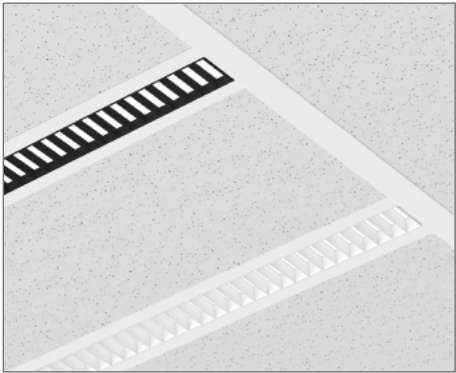




Flush Lens



Regressed Lens



Micro Baffles

FIXTURE MOUNTING & CONNECTIONS

Mounting Type

**T-Bar Mount** Specifically designed to fit standard T-Bar/Grid Spacing for seamless fit. Available with a range of accessories, mounts and inserts that provide easy customization of visual appearance and performance enhancements.

Power Cord

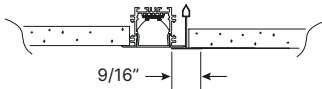
**24" Cable Kit** White and Black

Mounting Kit

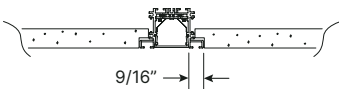
**Suspension Cable** Stainless Steel

Mounting Options

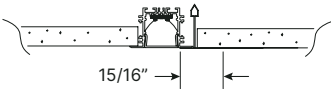
T1 - 9/16" Flat T-Bar Mount



T2 - 9/16" Bolt Slot T-Bar Mount



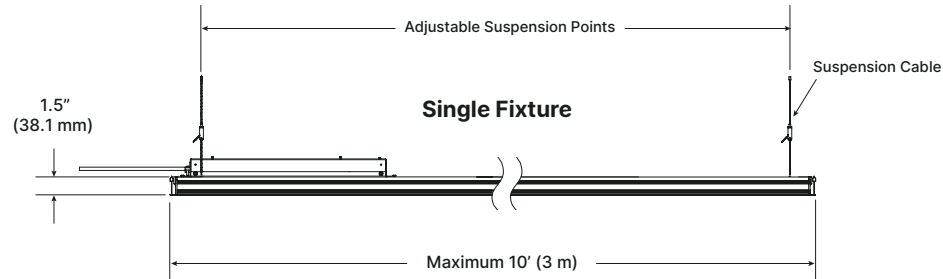
T3 - 15/16" Flat T-Bar Mount



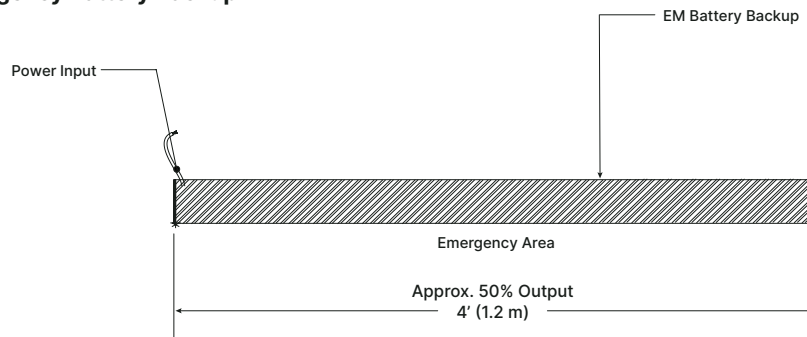


## Standard Lengths & Continuous Runs

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.



## 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.

## 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](http://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

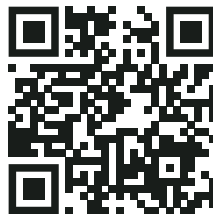
Each product is engineered reliability and quality assurance tested

## Warranty & Terms

### 5-YR Warranty



### Business Terms



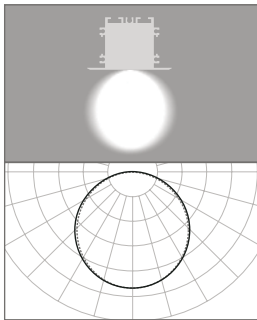
For details on our warranty and business terms, please click or scan the QR Code.

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

## DIRECT PHOTOMETRICS

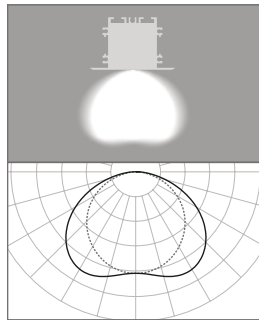
## Static White Light

DLAM: Lambertian



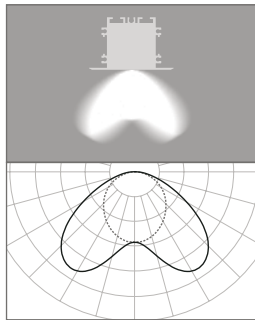
Length 48"  
 LED HE80  
 CRI/CCT 80+/3500K  
 Lumens 3,000  
 lm/ft 745  
 Watts 36  
 W/ft 9  
 LPW 83

DBW60: Batwing 60°



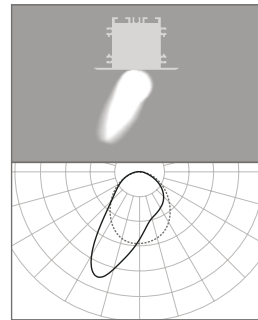
Length 48"  
 LED HE80  
 CRI/CCT 80+/3500K  
 Lumens 3,000  
 lm/ft 758  
 Watts 21  
 W/ft 5.4  
 LPW 141

DDA70: Double Asymmetric 70°



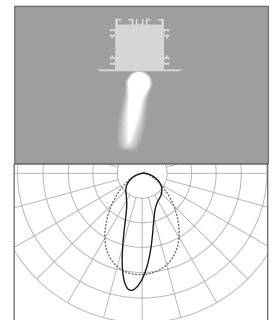
Length 48"  
 LED HE80  
 CRI/CCT 80+/3500K  
 Lumens 3,000  
 lm/ft 750  
 Watts 25  
 W/ft 6.2  
 LPW 123

DA3015: Asymmetric 30° at 15° Tilt



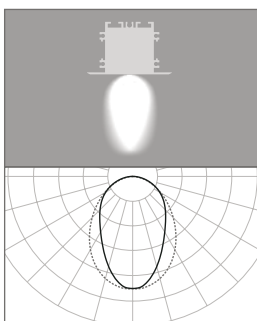
Length 48"  
 LED HE80  
 CRI/CCT 80+/3500K  
 Lumens 3,000  
 lm/ft 757  
 Watts 23  
 W/ft 5.8  
 LPW 131

DA3010: Asymmetric 30° at 10° Tilt



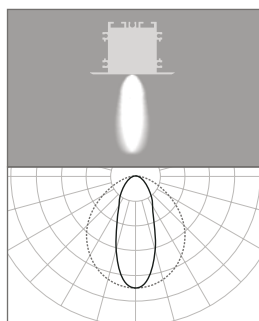
Length 48"  
 LED HE80  
 CRI/CCT 80+/3500K  
 Lumens 3,000  
 lm/ft 754  
 Watts 23  
 W/ft 5.8  
 LPW 130

DM70: Medium 70°



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

DN40: Narrow 40°



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

## PATENTS & TRADEMARKS



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### Utility Patents

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### Design Patents

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### The Patent Corporation Treaty

<b>World Intellectual Property Organization</b>	WO2015200268
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