PROBeam4 Surface

4" High-Performance Linear LED Surface Mount

XICO®

4"
Scale

Integral Driver
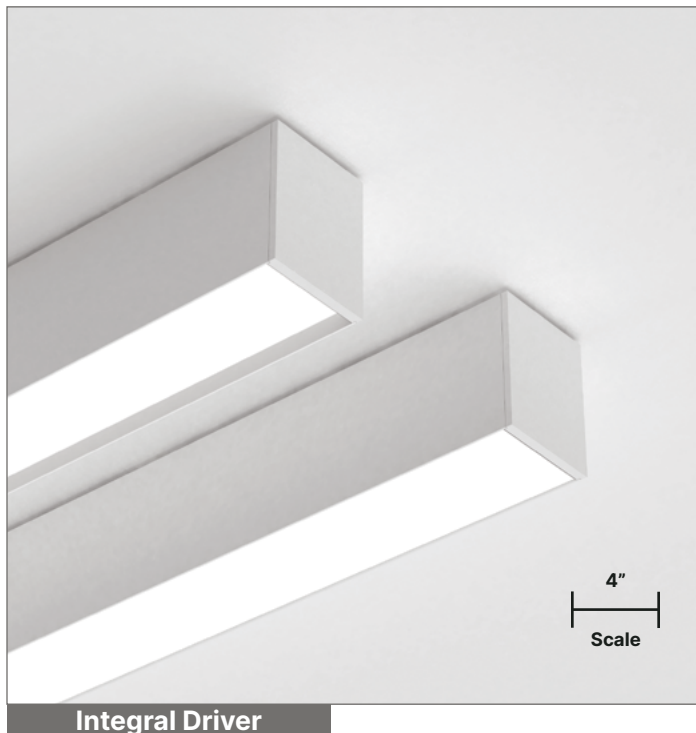
Features & Benefits

Exceptional Performance
Up to 1,500 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

Red List Free

FIXTURE ORDERING

Project Name	
Fixture Type	

1) FIXTURE DESIGN

PRODUCT	LENGTH		FINISH		END CAP		OPTIC	
PBE4-S								

PRODUCT	LENGTH		FINISH		END CAP		OPTIC	
4" High-Performance Linear LED Surface Mount	**2**	2'	**MWH**	Matte White (RAL9003)	**E1**	Flat End Cap	**OFL**	Flush Lens
	4	4'	**MBK**	Matte Black (RAL9005)			**ORL**	Regressed Lens
	6	6'	**MGR**	Matte Gray (RAL7001)			**OCRL**	Continuous Regressed Lens[1]
	8	8'	**CAE**	Clear Anodized Effect				
	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	**DLAM**	Lambertian	**35**	350 lm/ft
S90	Std. 90 CRI	**27**	2700K	**DBW90**	Batwing 90°	**50**	500 lm/ft
HE80	High-Eff. 80 CRI	**30**	3000K	**DBW60**	Batwing 60°	**75**	750 lm/ft
HE90	High-Eff. 90 CRI	**35**	3500K	**DDA70**	Double Asymmetric 70°	**100**	1,000 lm/ft
HD95	High-Def. 95 CRI	**40**	4000K	**DA5025**	Asymmetric 50° at 25° Tilt	**125**	1,250 lm/ft
SUN	Full SunLike	**50**	5000K	**DA4005**	Asymmetric 40° at 5° Tilt	**150**	1,500 lm/ft
SBIOS	Static BIOS	**3022D**	3000K to 2200K Dim-to-Warm	**DM55**	Medium 55°	**X_**	Specify lm/ft
DBIOS	Dynamic BIOS	**3527D**	3500K to 2700K Dim-to-Warm	**DN40**	Narrow 40°		
TBIOS	Tunable White BIOS	**X_**	Specify CCT	**X_**	Specify Beam		

3) FIXTURE POWER & CONTROLS

LINE VOLTAGE (DC)		INTEGRAL DRIVER (POWER)		EMERGENCY BACKUP		CONTROL SYSTEM[2]	
UNV	120/277V	**FDND**	Factory Non-Dimming	**NN**	Not Needed	**NN**	Not Needed
347	347V	**FD01**	Factory 0-10V 1% Dim	**EMC**	Emergency Circuit	**LUT**	Lutron
		FD10	Factory 0-10V 10% Dim	**EMB**	Emergency Battery (10 W — Onboard)	**COO**	Cooper
		FDDA	Factory DALI 0.1% Dim	**X_**	Specify Backup	**CAS**	Casambi
		FDDX	Factory DMX Dim			**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) FIXTURE MOUNTING & CONNECTIONS

MOUNTING TYPE		POWER CORD		MOUNTING KIT	
SC1	Surface Mount Clip	**S24WH**	24" White Cable Kit	**SSMB**	Stainless Steel Surface Mounting Bracket
T1	9/16" Flat T-Bar Mount	**S24BK**	24" Black Cable Kit		
T2	9/16" Bolt Slot T-Bar Mount				
T3	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

Adjustable Mounting Points

5.25"
(133.3 mm)

4"
(101.6 mm)

2' (0.6 m), 4' (1.2 m), 6' (1.8 m), 8' (2.4 m), or Maximum 10' (3 m)

4" (101.6 mm)

FLUSH
LENS

REGRESSED
LENS

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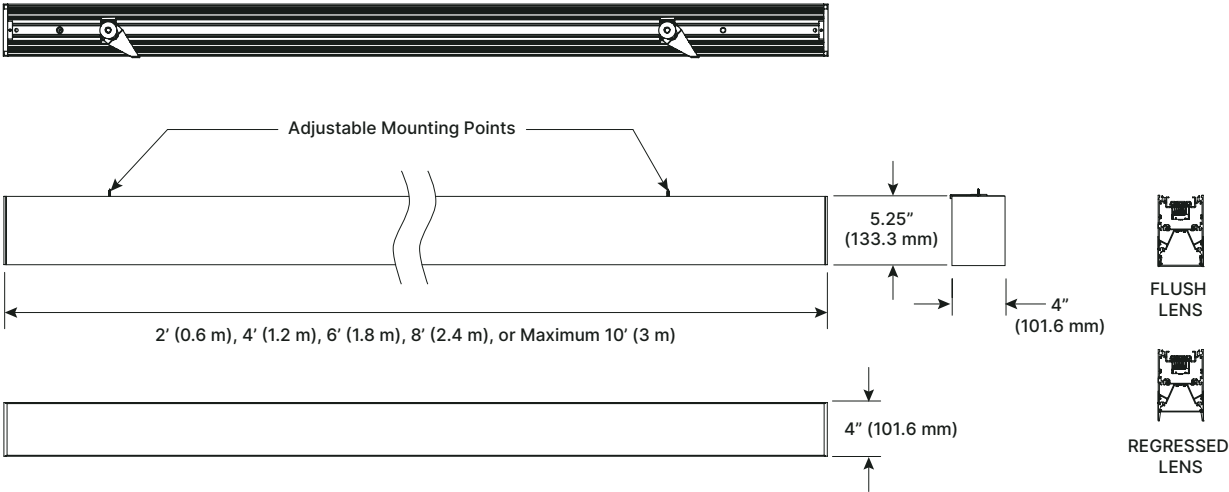
Length

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

End Cap

End Cap Option   Flat

End Cap Material   Machined or cast aluminum

Optic

Lens Options   Flush, Regressed, and Continuous Regressed

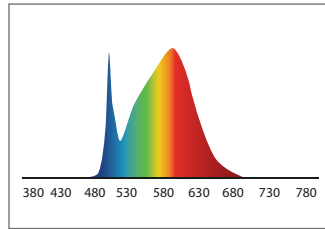**Lens Material**   Patented SmartOptics® made from Acrylic (PMMA)

Voltage

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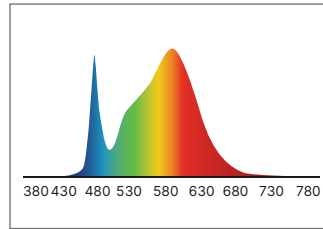
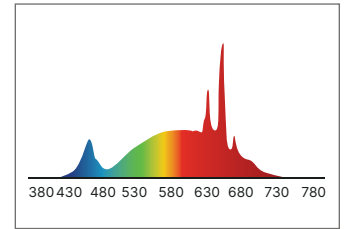# LED SELECTION GUIDE

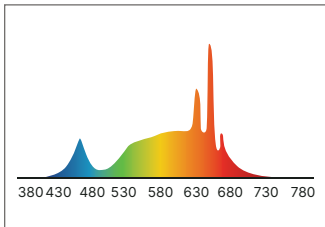**S80: Standard 80+ CRI**
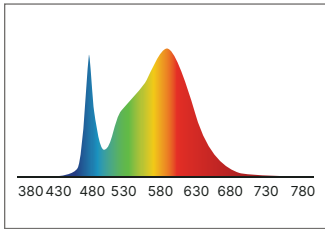
S90: Standard 90+ CRI
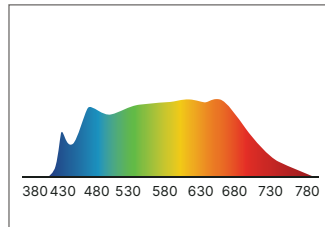

HE80: High-Efficiency 80+ CRI
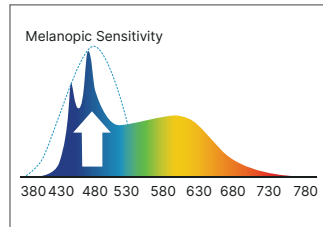

HE90: High-Efficiency 90+ CRI
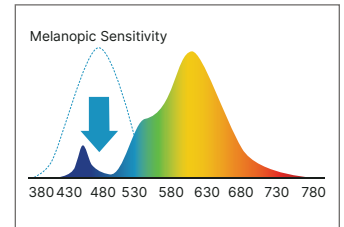

HD95: High-Definition 95+ CRI

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

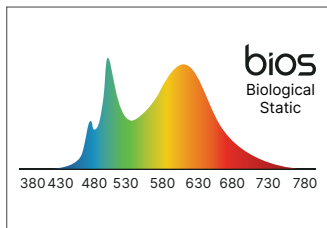To learn more about BIOS Technology, please click or scan the QR Code.

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.
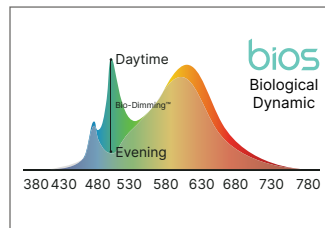
BIOS Static

bios
Biological Static

380 430 480 530 580 630 680 730 780

BIOS Dynamic

Daytime
bios
Biological Dynamic
Bio-Dimming™
Evening

380 430 480 530 580 630 680 730 780

BIOS Tunable

Daytime
bios
Biological Tunable
Bio-Dimming™
Evening

380 430 480 530 580 630 680 730 780

BIOS Dim-to-Warm

bios
Biological Dim-to-Warm

380 430 480 530 580 630 680 730 780

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**	**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.
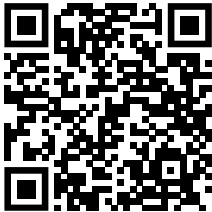
FIXTURE POWER & CONTROLS

Voltage

LED Driver	Factory Selected, 36–39V Constant Current

Emergency Backup

Backup Types	Emergency Circuit, Emergency Battery (Onboard), and other emergency backups are available
Wiring	Typically the Emergency Backup is wired to 48" sections
Power	10 W
Illumination Time	90 minutes

Partners
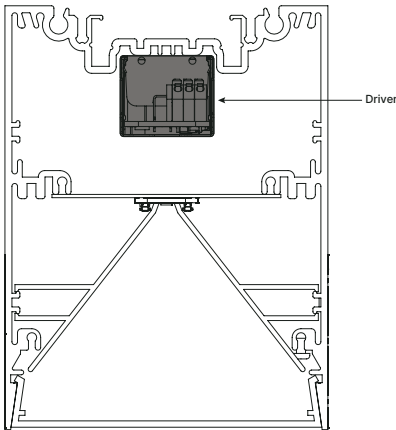
| Control Systems	Integral Drivers
Other	Factory Non-Dimming, Factory 0-10V 1% Dim, Factory 0-10V 10% Dim, Factory DALI 0.1% Dim, Factory DMX Dim, Factory TRIAC Dim, eldoLED 0-10V 0.1% Dim, eldoLED 0-10V 1% Dim, eldoLED DALI 0.1% Dim, and other drivers are available, consult factory (not all integral)
Lutron	Hi-Lume 1% Dimming and 5-Series 5% Dimming
Cooper	Compatible driver
Casambi (wireless)	Compatible driver

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.
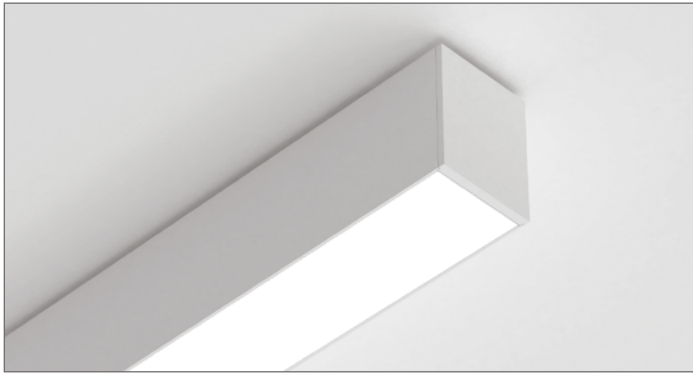
Flush Lens
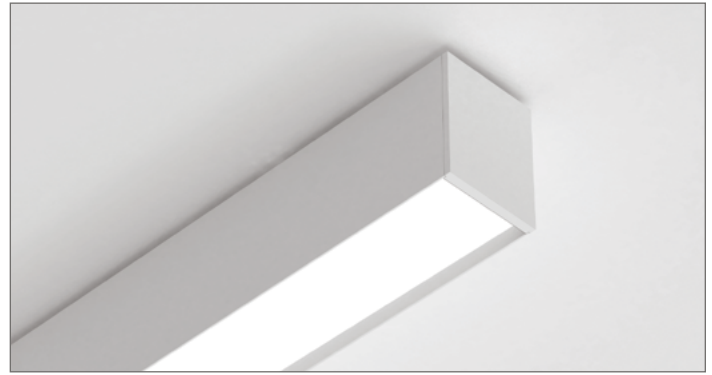
Regressed Lens

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.

Power Cord
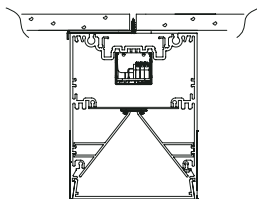
24" Cable Kit

White and Black

Mounting Kit
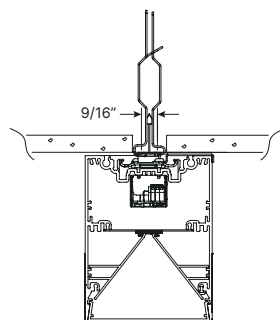
Surface Mounting Bracket
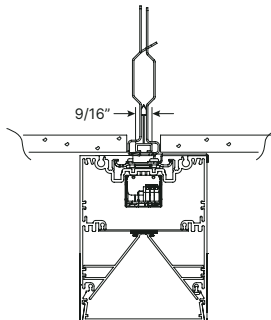
Stainless Steel
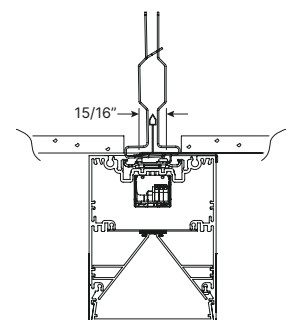
Mounting Options

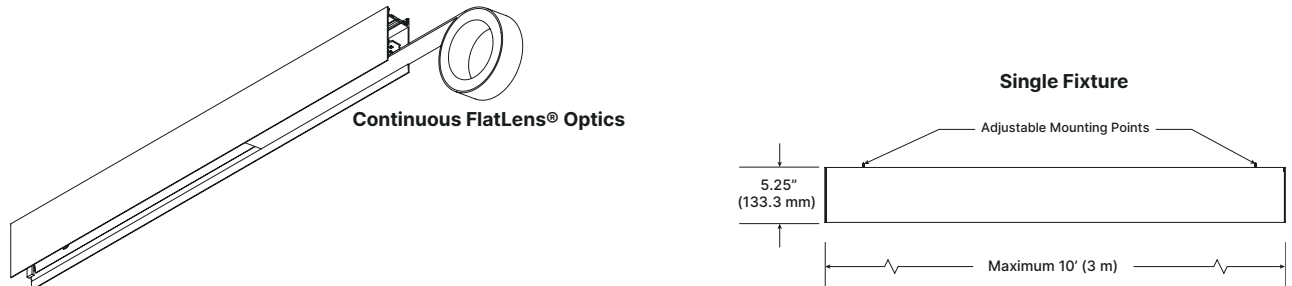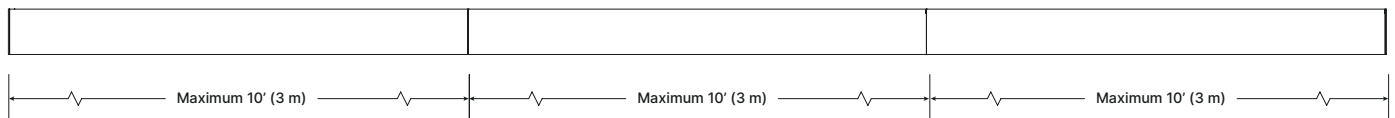| SC1 - Surface Mount Clip	T1 - 9/16" Flat T-Bar Mount	T2 - 9/16" Bolt Slot T-Bar Mount	T3 - 15/16" Flat T-Bar Mount

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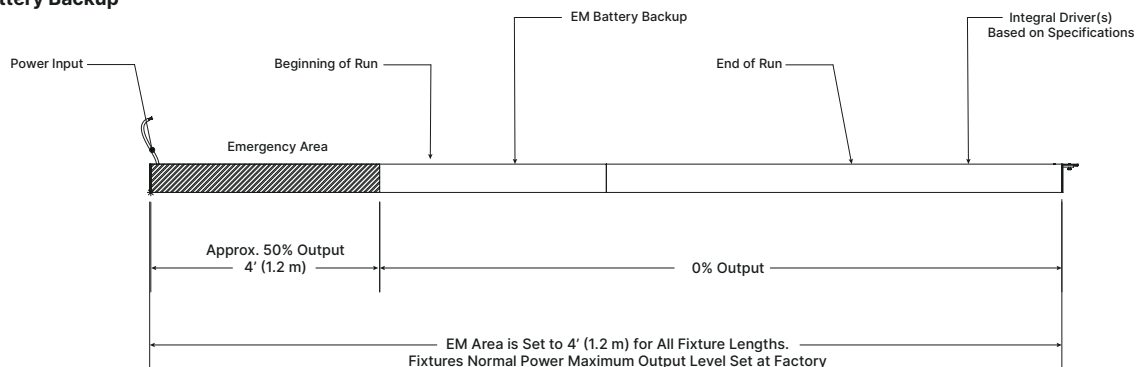
Lens can be supplied in a maximum 250' roll length with Continuous FlatLENS Optics to be installed on-site for a seamless light surface.

Continuous FlatLens® Optics

Single Fixture

Adjustable Mounting Points

5.25"
(133.3 mm)

Maximum 10' (3 m)

Standard Continuous Run

Maximum 10' (3 m)   Maximum 10' (3 m)   Maximum 10' (3 m)

Emergency Battery Backup

EM Battery Backup

Integral Driver(s)
Based on Specifications

Power Input

Beginning of Run

End of Run

Emergency Area

Approx. 50% Output
4' (1.2 m)

0% Output

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** 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

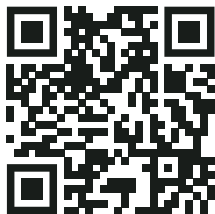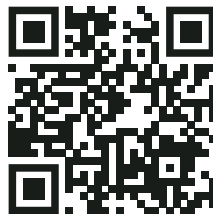|	
Manufacturing	All XICO products and associated optics and LED engines are assembled at our factory in Woburn, MA
Quality Assurance	Each product is engineered reliability and quality assurance tested

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**	**DA5025**	**DA4005**	**DM55**	**DN40**
Flush Lens	●	●	●	●	●	●	●
Regressed Lens	●	●	●	●	●	●	●

DIRECT PHOTOMETRICS

Static White Light

DLAM: Lambertian
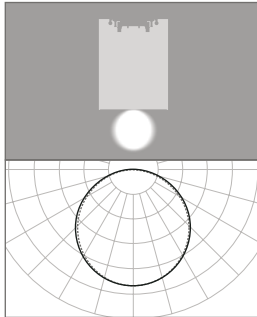
Length	48"
LED	HE90
CRI/CCT	90+/3500K
Lumens	3,000
lm/ft	750
Watts	21
W/ft	5.28
LPW	142

DBW60: Batwing 60°
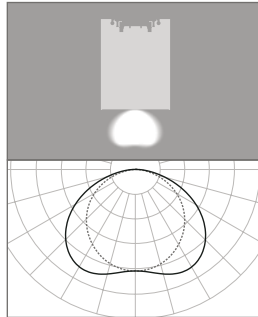
Length	48"
LED	HE90
CRI/CCT	90+/3500K
Lumens	3,000
lm/ft	750
Watts	21
W/ft	5.17
LPW	145

DDA70: Double Asymmetric 70°
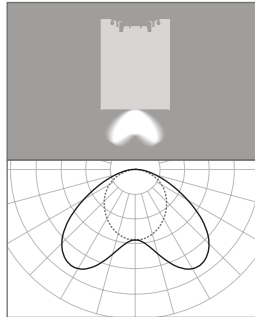
Length	48"
LED	HE90
CRI/CCT	90+/3500K
Lumens	3,000
lm/ft	750
Watts	22
W/ft	5.43
LPW	138

DA5025: Asymmetric 50° at 25° Tilt
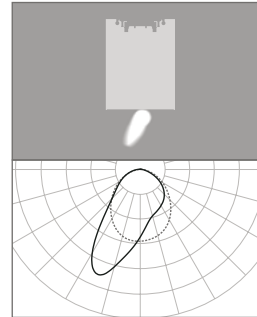
Length	48"
LED	HE90
CRI/CCT	90+/3500K
Lumens	3,000
lm/ft	750
Watts	21
W/ft	5.24
LPW	143

DA4005: Asymmetric 40° at 5° Tilt
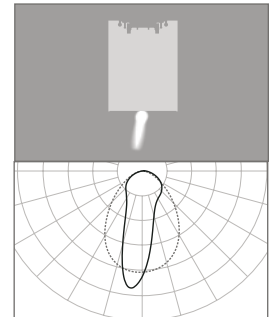
Length	48"
LED	HE90
CRI/CCT	90+/3500K
Lumens	3,000
lm/ft	750
Watts	22
W/ft	5.39
LPW	139

DM55: Medium55°
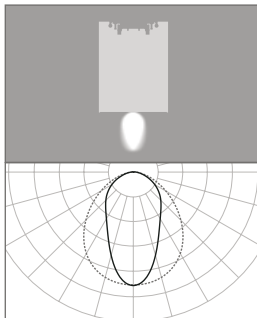
Length	48"
LED	HE90
CRI/CCT	90+/3500K
Lumens	3,000
lm/ft	750
Watts	22
W/ft	5.47
LPW	137

DN40: Narrow 40°
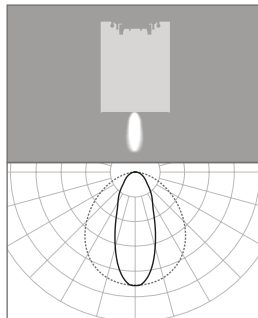
Length	48"
LED	HE90
CRI/CCT	90+/3500K
Lumens	3,000
lm/ft	750
Watts	22
W/ft	5.51
LPW	136

PATENTS & TRADEMARKS

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Utility Patents

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