NANOSlot T-Bar

1" Compact Linear LED T-Bar Mount

XICO®

1" Scale
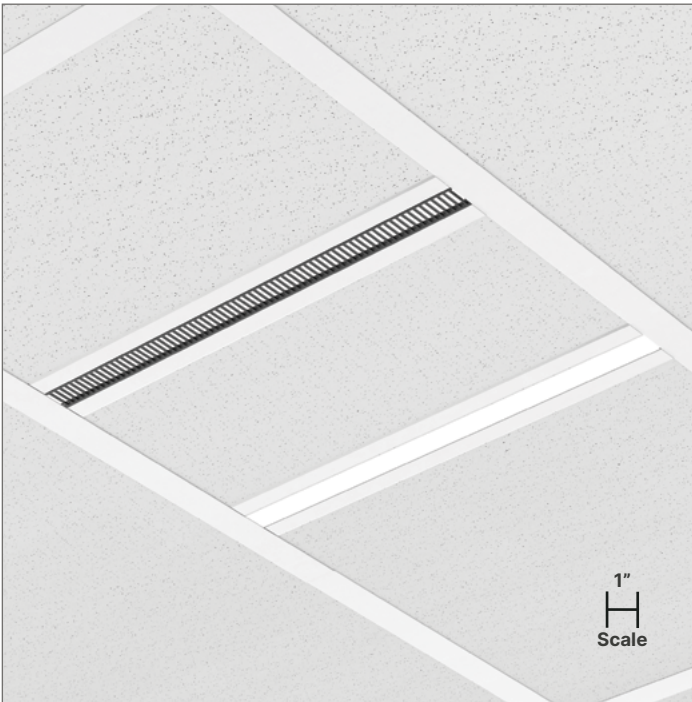
Fixture Mounted or Remote Driver

Features & Benefits

Exceptional Performance
Up to 1,000 lm/ft, 135 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		OPTIC	
NSL-RT						

PRODUCT	LENGTH		FINISH		OPTIC	
1" Linear LED T-Bar Mount	**2**	2'	**MWH**	Matte White (RAL9003)	**OFL**	Flush Lens
	4	4'	**MBK**	Matte Black (RAL9005)	**ONBWH**	Nano Baffle, White
	6	6'	**MGR**	Matte Gray (RAL7001)	**ONBBK**	Nano Baffle, Black
	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		**DBW60**	Batwing 60°	**50**	500 lm/ft
HE80	High-Eff. 80 CRI	**30**	3000K		**DDA70**	Double Asymmetric 70°	**75**	750 lm/ft
HE90	High-Eff. 90 CRI	**35**	3500K		**DA5025**	Asymmetric 50° at 25° Tilt	**100**	1,000 lm/ft
HD95	High-Def. 95 CRI	**40**	4000K		**DA4005**	Asymmetric 40° at 5° Tilt	**X_**	Specify lm/ft
SUN	Full SunLike	**50**	5000K		**DM55**	Medium 55°		
SBIOS	Static BIOS	**3022D**	3000K to 2200K Dim-to-Warm		**DN40**	Narrow 40°		
DBIOS	Dynamic BIOS	**3527D**	3500K to 2700K Dim-to-Warm		**X_**	Specify Beam		
TBIOS	Tunable White BIOS	**X_**	Specify CCT					

3) FIXTURE POWER & CONTROLS

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

4) FIXTURE MOUNTING & CONNECTIONS

MOUNTING TYPE		POWER CORD	
T1	9/16" Flat T-Bar Mount	**S24WH**	24" White Cable Kit
T3	15/16" Flat T-Bar Mount	**S24BK**	24" Black Cable Kit
X_	Specify Mounting Type		

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.
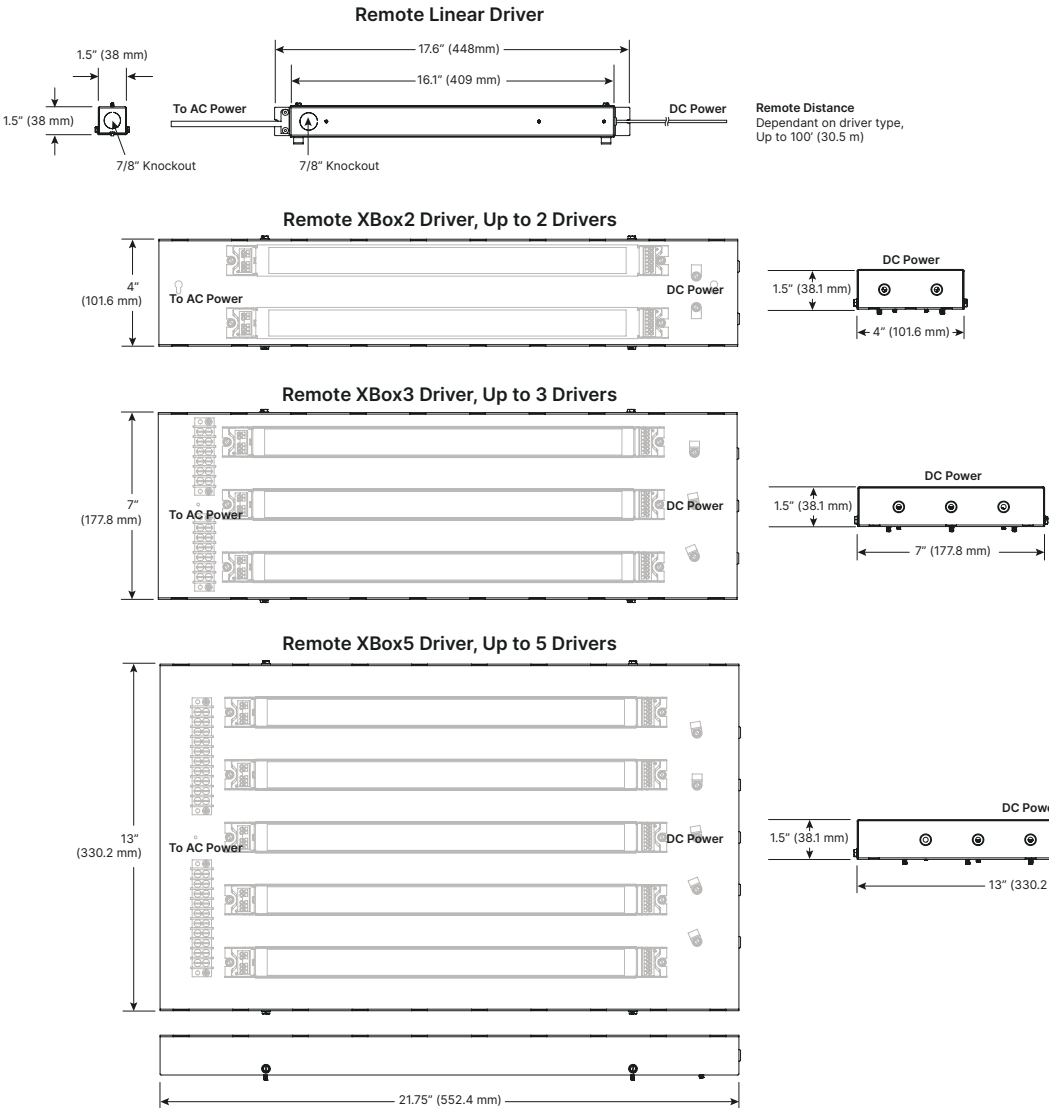[3] The control system and driver must be compatible.

Project Name	
Fixture Type	

NOTES

REMOTE DRIVER BOX

Dimensions

Remote Linear Driver

1.5" (38 mm)

1.5" (38 mm)

17.6" (448mm)

16.1" (409 mm)

To AC Power

DC Power

Remote Distance
Dependant on driver type,
Up to 100' (30.5 m)

7/8" Knockout

7/8" Knockout

Remote XBox2 Driver, Up to 2 Drivers

4"
(101.6 mm)

To AC Power

DC Power

DC Power

1.5" (38.1 mm)

4" (101.6 mm)

Remote XBox3 Driver, Up to 3 Drivers

7"
(177.8 mm)

To AC Power

DC Power

DC Power

1.5" (38.1 mm)

7" (177.8 mm)

Remote XBox5 Driver, Up to 5 Drivers

13"
(330.2 mm)

To AC Power

DC Power

DC Power

1.5" (38.1 mm)

13" (330.2 mm)

21.75" (552.4 mm)

FIXTURE DESIGN

Dimensions

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

DC Power Whip

Suspension Cable

Power Cable

1" (25.4 mm)

T-Bar Flange

1.3" (33.8 mm)

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

A - 2.42" (61.6 mm) OR
B - 3.17" (80.6 mm)

A - 9/16" OR
B - 15/16"

1.3" (33.8 mm)

1" (25.4 mm)

1.3" (33.8 mm)

2" (48.3 mm)

FLUSH LENS
WITH FIXTURE
MOUNTED DRIVER

1.5" (38 mm)

24" Cable

1" (25.4 mm)

1.5" (38 mm)

7/8" Knockout

FLUSH LENS
WITH REMOTE
DRIVER
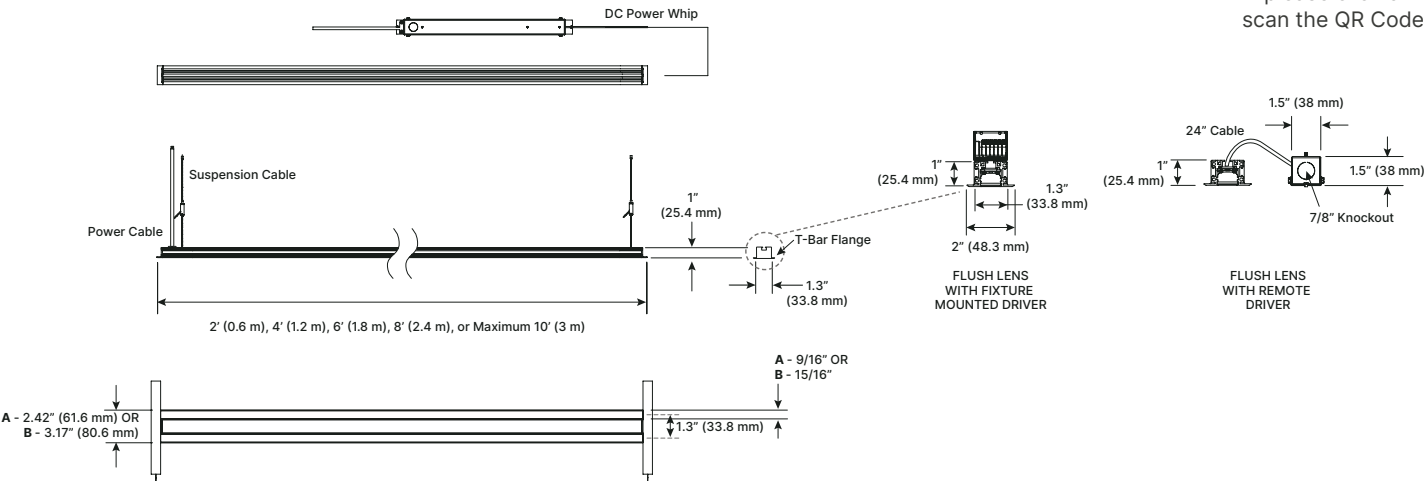
Length

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 and Nano Baffle

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
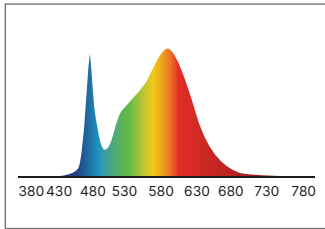
S90: Standard 90+ CRI
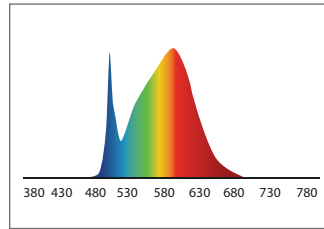
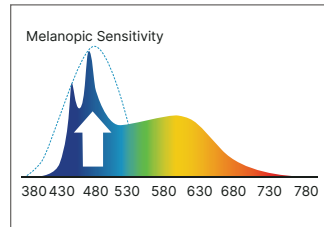**HE80: High-Efficiency 80+ CRI**
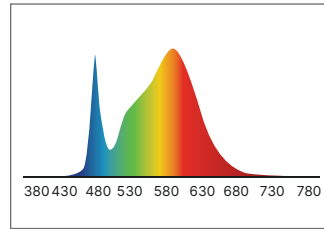
HE90: High-Efficiency 90+ CRI
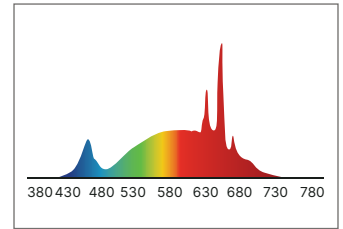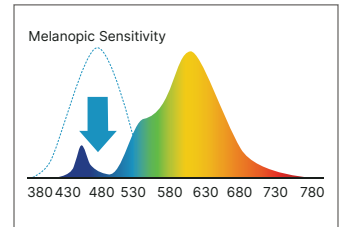

HD95: High-Definition 95+ CRI
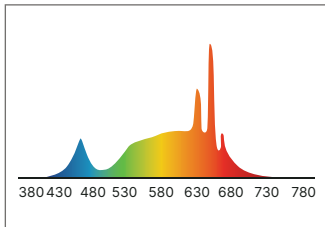
SUN: Full Spectrum "SunLike"
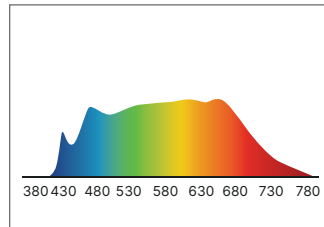
HCD: Human Centric Day

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.
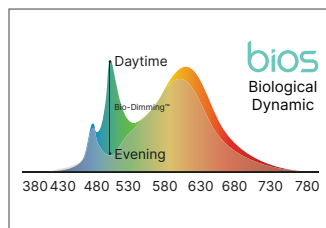
BIOS Static
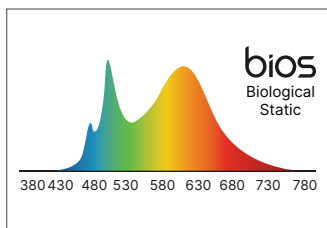
BIOS Dynamic

BIOS Tunable
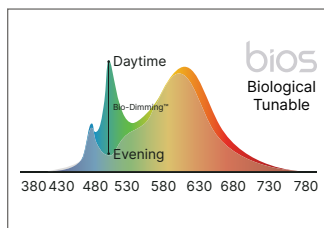
BIOS Dim-to-Warm
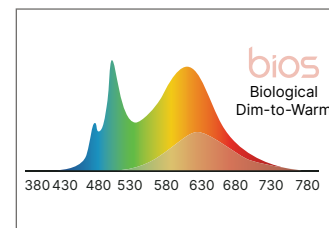
Daytime

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	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

LUTRON   **COOPER**   **CASAMBI**   **eldoLED**

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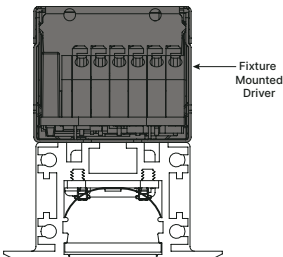
Fixture Mounted Drivers mount on top of the fixture. They provide 0-10V, DALI, DMX, and TRIAC dimming. Also compatible with Cooper and other common building control systems, including PoE and wireless.

Flush Lens
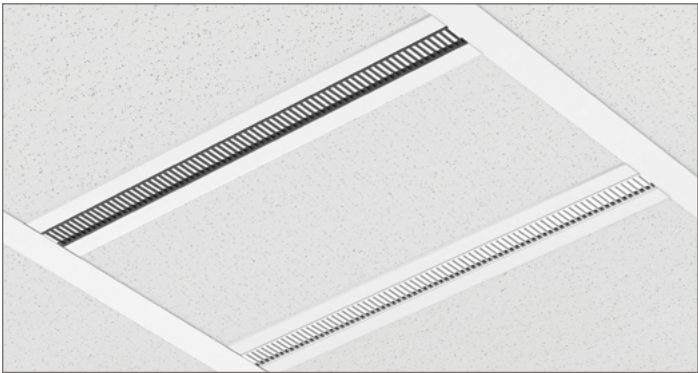
Nano Baffles

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.

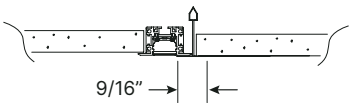### Power Cord

24" Cable Kit   White and Black
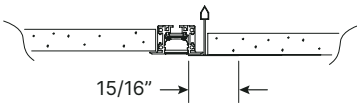
Mounting Kit

**Suspension Cable**   Stainless Steel

Mounting Options

T1 - 9/16" Flat T-Bar Mount   **T3 - 15/16" Flat T-Bar Mount**
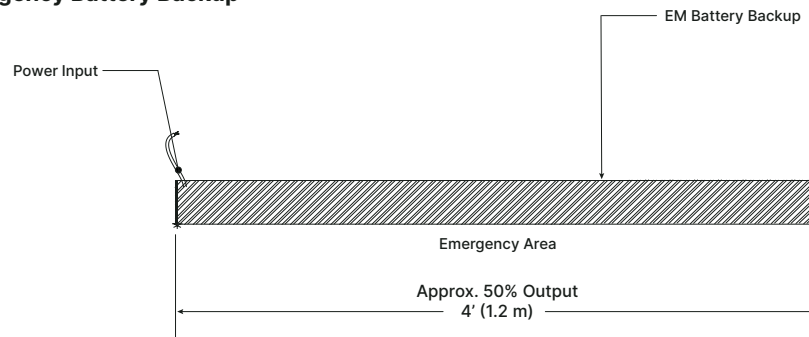

9/16"

15/16"

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.

Power Cable

Adjustable Suspension Points

Suspension Cable

Single Fixture

1"
(24.5 mm)

Maximum 10' (3 m)
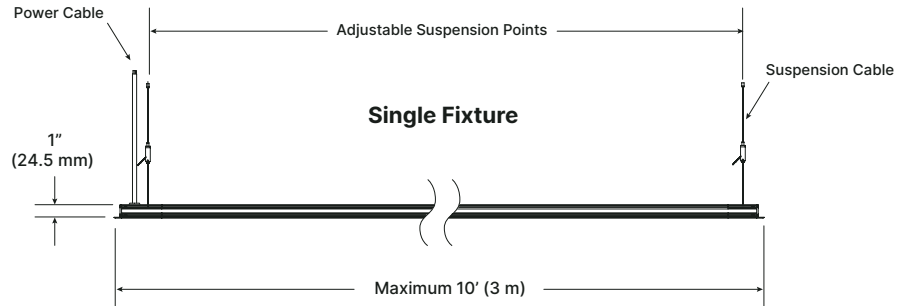
Emergency Battery Backup

EM Battery Backup

Power Input

Emergency Area

Approx. 50% Output
4' (1.2 m)

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

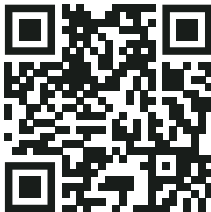|	
Manufacturing	All XICO products and associated optics and LED engines are assembled at our factory in Woburn, MA
Quality Assurance	Each product is engineered reliability and quality assurance tested

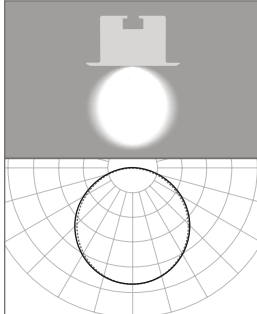### Warranty & Terms

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	●	●	●	●	●	●	●
Nano Baffle	●	●	●	●	●	●	●

DIRECT PHOTOMETRICS

Static White Light

DLAM: Lambertian

Length 48"
LED HE80
CRI/CCT 80+/3500K
Lumens 3,000
lm/ft 765
Watts 27
W/ft 7
LPW 111

DBW60: Batwing 60°
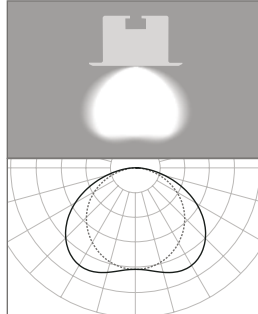
Length 48"
LED HE80
CRI/CCT 80+/3500K
Lumens 3,000
lm/ft 744
Watts 24
W/ft 6
LPW 123

DDA70: Double Asymmetric 70°
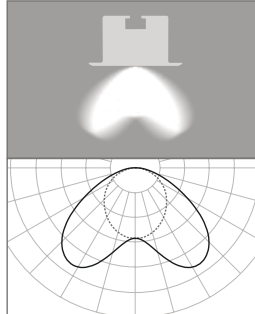
Length 48"
LED HE80
CRI/CCT 80+/3500K
Lumens 3,000
lm/ft 760
Watts 25
W/ft 6
LPW 123

DA5025: Asymmetric 50° at 25° Tilt
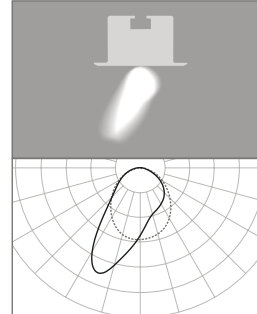
Length 48"
LED HE80
CRI/CCT 80+/3500K
Lumens 3,000
lm/ft 749
Watts 23
W/ft 6
LPW 130

DA4005: Asymmetric 40° at 5° Tilt
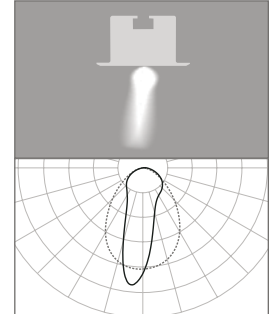
Length 48"
LED HE80
CRI/CCT 80+/3500K
Lumens 3,000
lm/ft 738
Watts 23
W/ft 6
LPW 128

DM55: Medium 55°
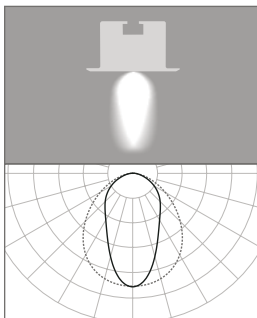
Length 48"
LED HE80
CRI/CCT 80+/3500K
Lumens 3,000
lm/ft 742
Watts 23
W/ft 6
LPW 129

DN40: Narrow 40°
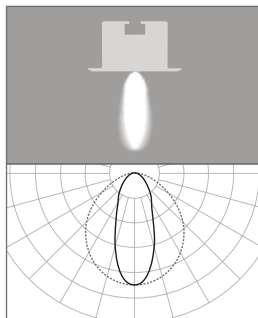
Length 48"
LED HE80
CRI/CCT 80+/3500K
Lumens 3,000
lm/ft 746
Watts 26
W/ft 6
LPW 116

PATENTS & TRADEMARKS

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Utility Patents

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