NANOSquare Pendant
0.95" Compact Linear LED Pendant Mount

XICO®

Remote Driver

0.95"
⊢─⊣
Scale

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	END CAP	OPTIC (DIRECT ONLY)
NSQ95-P				

NSQ95-P
0.95" Compact
Linear LED
Pendant Mount

LENGTH	
2	2'
4	4'
6	6'
8	8'
10	10'
X_	Specify X', Y"

FINISH	
MWH	Matte White (RAL9003)
MBK	Matte Black (RAL9005)
MGR	Matte Gray (RAL7001)
CAE	Clear Anodized Effect
RAL_	Specify RAL#

END CAP	
E1	Flat End Cap

OPTIC (DIRECT ONLY)	
OFL	Flush Lens
ONBWH	Nano Baffle, White
ONBBK	Nano Baffle, Black

2) LED LIGHT ENGINE

CRI		CCT		DIRECT BEAM PATTERN		DIRECT OUTPUT		INDIRECT BEAM PATTERN		INDIRECT OUTPUT	
S80	Std. 80 CRI	**22**	2200K	**DLAM**	Lambertian	**35**	350 lm/ft	**NN**	Not Needed	**NN**	Not Needed
S90	Std. 90 CRI	**27**	2700K	**DBW60**	Batwing 60°	**50**	500 lm/ft	**ILAM**	Lambertian	**35**	350 lm/ft
HE80	High-Eff. 80 CRI	**30**	3000K	**DDA70**	Double Asymmetric 70°	**75**	750 lm/ft	**IBW120**	Batwing 120°	**50**	500 lm/ft
HE90	High-Eff. 90 CRI	**35**	3500K	**DA5025**	Asymmetric 50°	**100**	1,000 lm/ft	**IFT150**	FlatTop 150°	**75**	750 lm/ft
HD95	High-Def. 95 CRI	**40**	4000K		at 25° Tilt	**X_**	Specify lm/ft	**IA6040**	Asymmetric	**100**	1,000 lm/ft
SUN	Full SunLike	**50**	5000K	**DA4005**	Asymmetric 40°				60° at 40° Tilt	**X_**	Specify lm/ft
SBIOS	Static BIOS	**3022D**	3000K to		at 5° Tilt			**IA4560**	Asymmetric		
DBIOS	Dynamic BIOS		2200K	**DM55**	Medium 55°				45° at 60° Tilt		
TBIOS	Tunable White		Dim-to-Warm	**DN40**	Narrow 40°						
	BIOS	**3527D**	3500K to	**X_**	Specify Beam			**X_**	Specify Beam		
			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	**RLDB**[2]	Remote Linear Driver Box	**LUT**	Lutron
		FD10	Factory 0-10V 10% Dim	**EMB**	Emergency Battery		(driver included by default)	**COO**	Cooper
		FDDA	Factory DALI 0.1% Dim		(10 W — Remote)	**RX2D**[2]	Optional Remote XBox2	**CAS**	Casambi
		FDDX	Factory DMX Dim	**X_**	Specify Backup		Driver, Up to 2 Drivers	**X_**	Specify Control
		FDTR	Factory TRIAC Dim			**RX3D**[2]	Optional Remote XBox3		System
		LD01	Lutron Hi-Lume 1% Dim				Driver, Up to 3 Drivers		
		LD05	Lutron 5-Series 5% Dim			**RX5D**[2]	Optional Remote XBox5		
		ED00	eldoLED 0-10V 0.1% Dim				Driver, Up to 5 Drivers		
		ED01	eldoLED 0-10V 1% Dim						
		EDDA	eldoLED DALI 0.1% Dim						
		X_	Specify Driver						

4) FIXTURE MOUNTING & CONNECTIONS

MOUNTING TYPE		CANOPY		POWER CORD	
DJ	Drywall/J-Box Mount	**RCWH2**	2" Round Canopy, White	**P48WH**	48" White Cord (Ø 1/8")
T1	9/16" Flat T-Bar Mount	**RCBK2**	2" Round Canopy, Black	**P48BK**	48" Black Cord (Ø 1/8")
T2	9/16" Bolt Slot T-Bar Mount	**RCWH5**	5" Round Canopy, White	**P96WH**	96" White Cord (Ø 1/8")
T3	15/16" Flat T-Bar Mount	**RCBK5**	5" Round Canopy, Black	**P96BK**	96" Black Cord (Ø 1/8")
		SQCWH2	2" Square Canopy, White		
		SQCBK2	2" Square Canopy, Black		
		SQCWH5	5" Square Canopy, White		
		SQCBK5	5" Square Canopy, Black		

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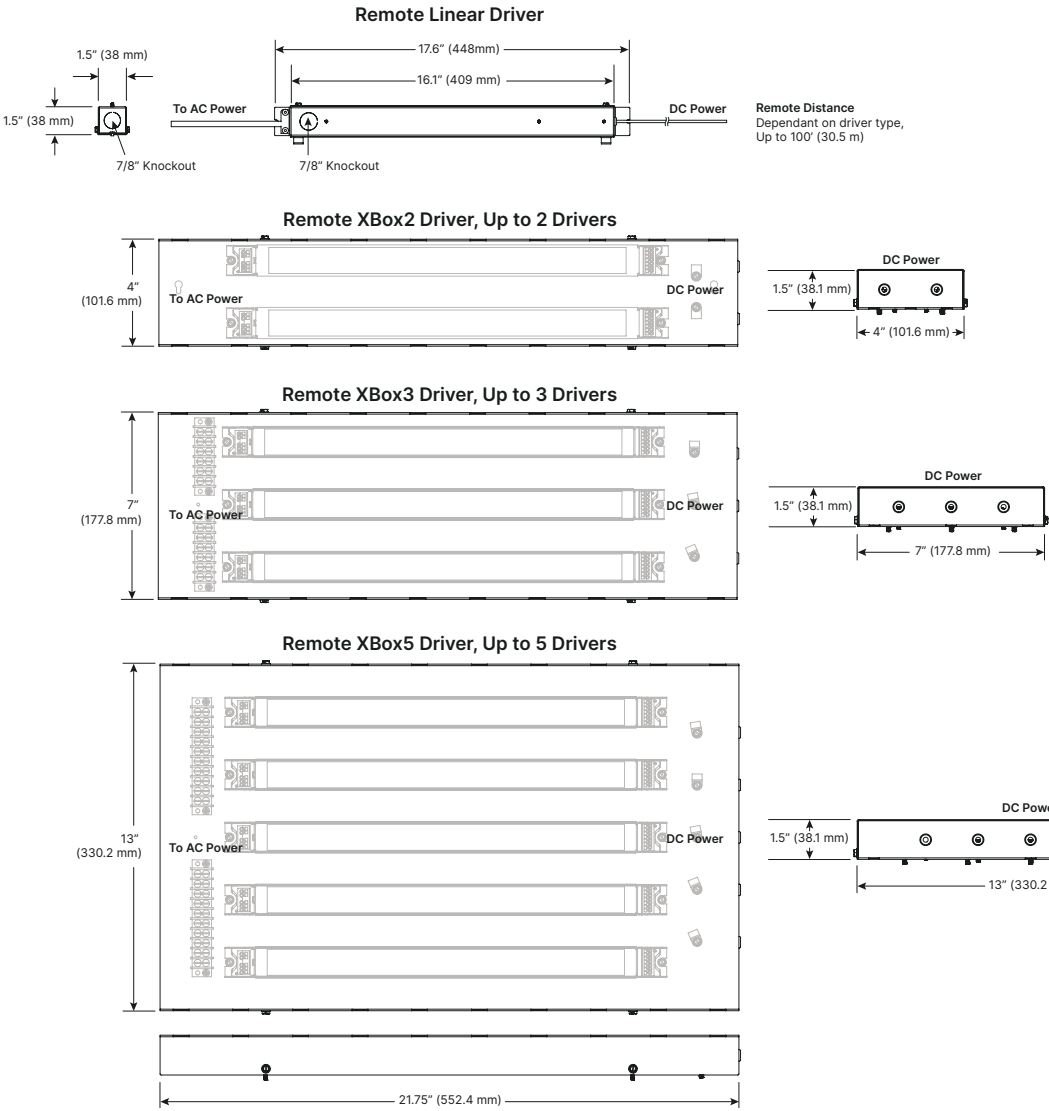[3] The control system and driver must be compatible.
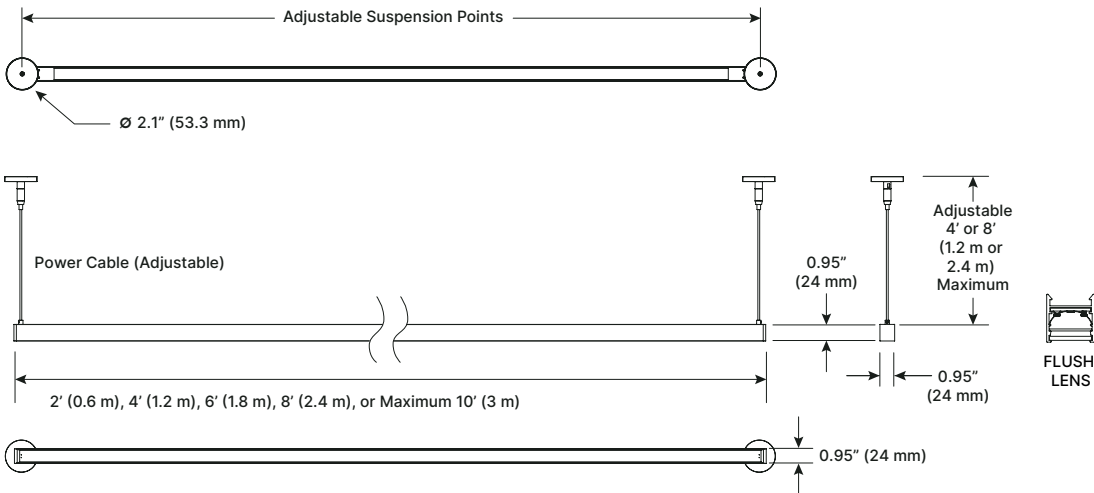
Project Name

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

7/8" Knockout

7/8" Knockout

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

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

Adjustable Suspension Points

Ø 2.1" (53.3 mm)

Power Cable (Adjustable)

0.95" (24 mm)

Adjustable 4' or 8' (1.2 m or 2.4 m) Maximum

0.95" (24 mm)

FLUSH LENS

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

0.95" (24 mm)

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 and Nano Baffle

Lens Material   Patented SmartOptics® made from Acrylic (PMMA)

Voltage

Fixture Voltage (AC)   120–277 VAC and 347 VAC, 50/60 Hz
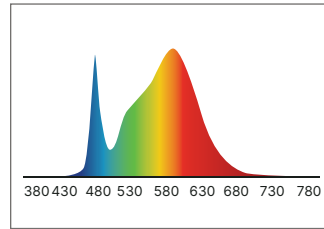
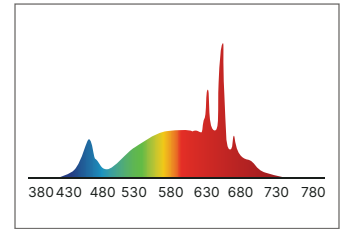# LED SELECTION GUIDE
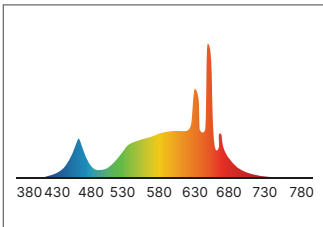
S80: Standard 80+ CRI
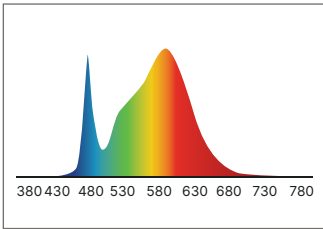
S90: Standard 90+ CRI
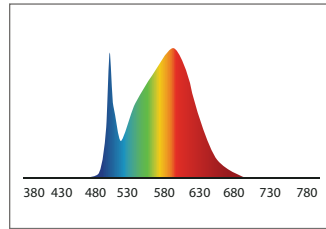
HE80: High-Efficiency 80+ CRI
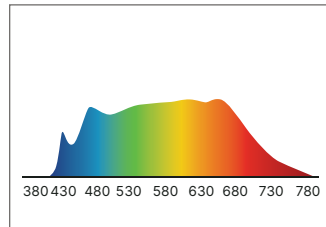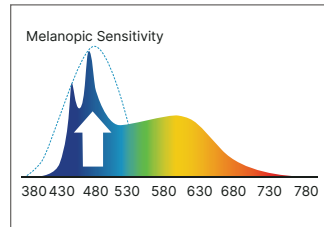

HE90: High-Efficiency 90+ CRI

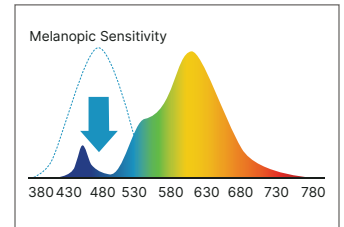**HD95: High-Definition 95+ CRI**

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.
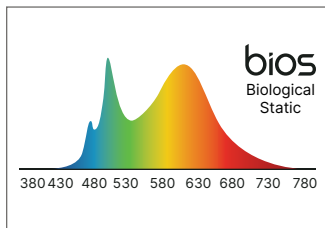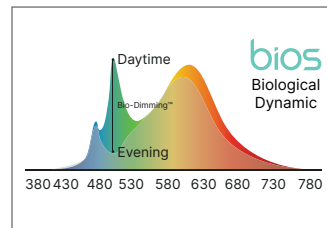
BIOS Static	**BIOS Dynamic**	**BIOS Tunable**	**BIOS Dim-to-Warm**
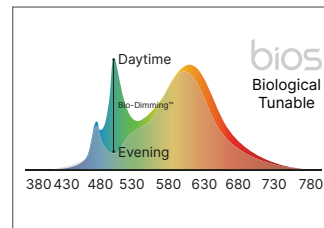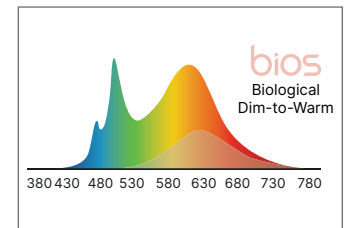
Daytime
No color change when dimmed

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.
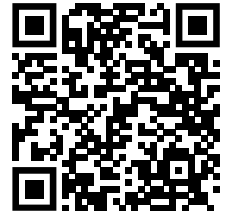
FIXTURE POWER & CONTROLS

Voltage

LED Driver	Factory Selected, 36–39V Constant Current

Emergency Backup

Backup Types	Emergency Circuit, Emergency Battery (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	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.

Flush Lens
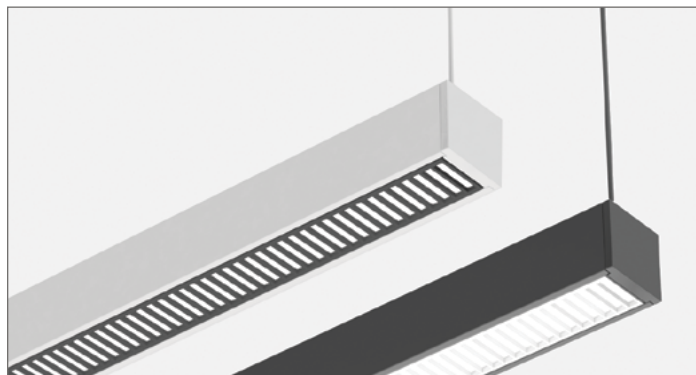
Nano Baffles

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.

Canopy

Canopy Sizes & Shapes

2" and 5", Round and Square

Canopy Colors

White (RAL9003)   Black (RAL9005)

Canopy Material

Powder Coated Steel

Power Cords
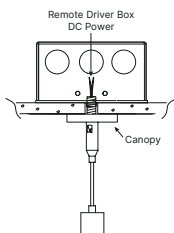
48" Cable Kit

White and Black

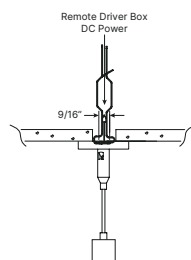**96" Cable Kit**

White and Black

Mounting Options

Typically suspended at a distance of between 24" and 72". Supplied hardware includes:

• Remote Drivers (optional XBox Drivers are sold separately)

• 48" or 96" standard adjustable cord

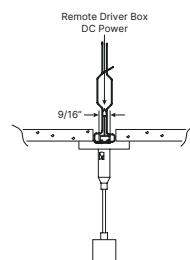• Internal brackets to eliminate light leakage at joints
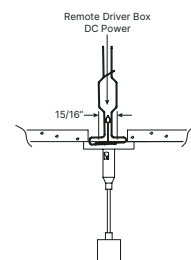
DJ - Drywall/J-Box Mount

Remote Driver Box
DC Power

Canopy

T1 - 9/16" Flat T-Bar Mount

Remote Driver Box
DC Power

9/16"

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

Remote Driver Box
DC Power

9/16"

T3 - 15/16" Flat T-Bar Mount

Remote Driver Box
DC Power
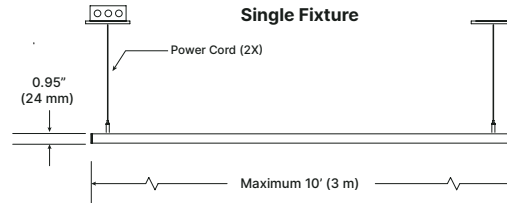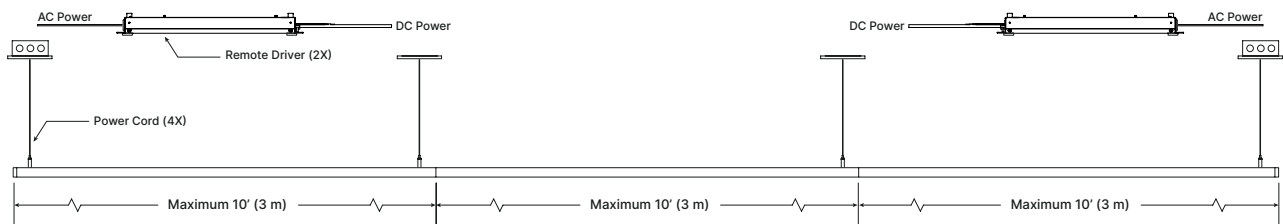
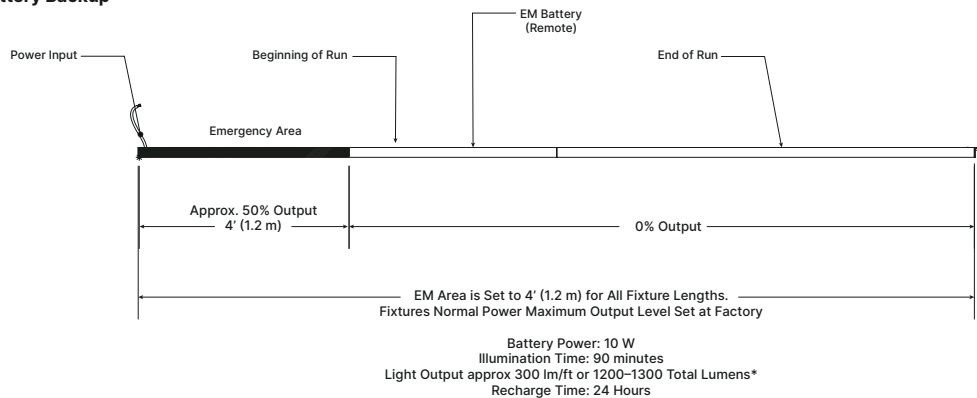15/16"

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.
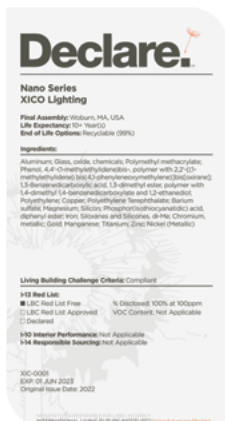
Single Fixture

Power Cord (2X)

0.95"
(24 mm)

Maximum 10' (3 m)

Standard Continuous Run

AC Power

Remote Driver (2X)

DC Power

DC Power

AC Power

Power Cord (4X)

Maximum 10' (3 m)

Maximum 10' (3 m)

Maximum 10' (3 m)

Emergency Battery Backup

Power Input

Beginning of Run

EM Battery
(Remote)

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

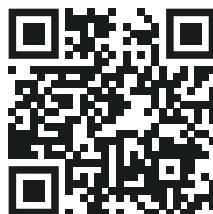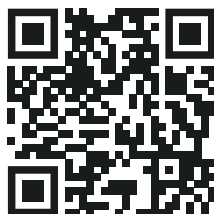|	
Manufacturing	All XICO products and associated optics and LED engines are assembled at our factory in Woburn, MA
Quality Assurance	Each product is engineered reliability and quality assurance tested

Warranty & Terms

5-YR Warranty

Business Terms

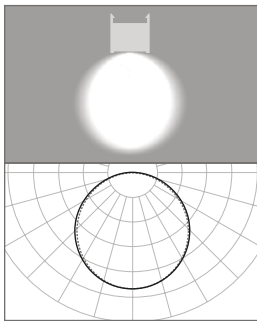For details on our warranty and business terms, please click or scan the QR Code.

NANOSquare Pendant

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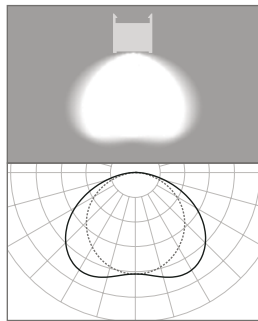
Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/ft	744
Watts	24
W/ft	6
LPW	123

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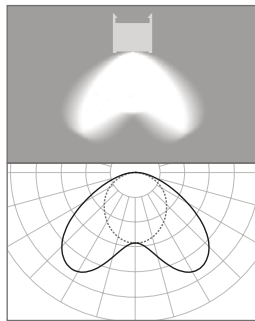
Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/ft	760
Watts	25
W/ft	6
LPW	123

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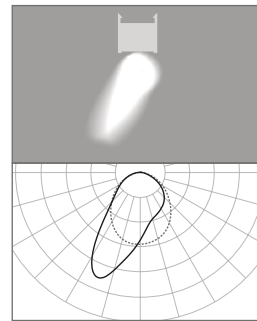
Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/ft	749
Watts	23
W/ft	6
LPW	130

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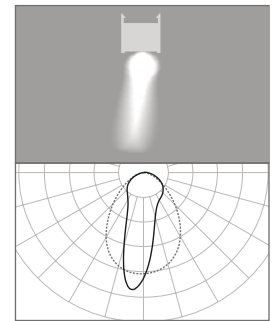
Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/ft	738
Watts	23
W/ft	6
LPW	128

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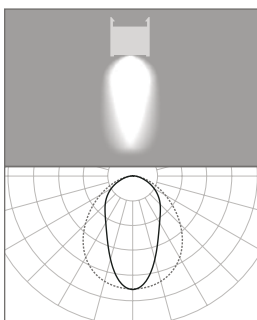
Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/ft	742
Watts	23
W/ft	6
LPW	129

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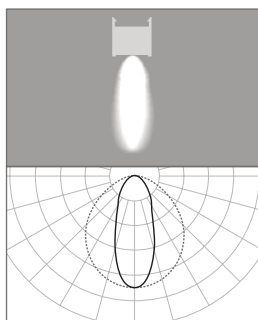
Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/ft	746
Watts	26
W/ft	6
LPW	116

INDIRECT PHOTOMETRICS

Static White Light

ILAM: Lambertian
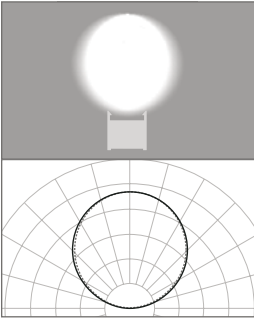
Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	4,000
lm/ft	1,000
Watts	28
W/ft	7
LPW	150

IBW120: Batwing 120°
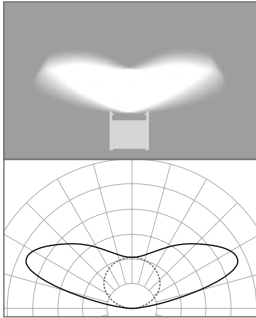
Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	4,000
lm/ft	1,002
Watts	25
W/ft	6.3
LPW	159

IFT150: FlatTop 150°
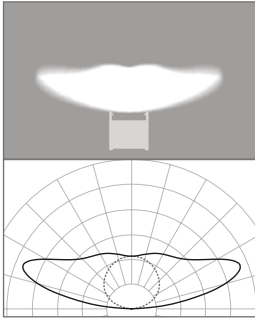
Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	4,000
lm/ft	1,004
Watts	26
W/ft	6.5
LPW	155

IA6040: Asymmetric 60° at 40° Tilt
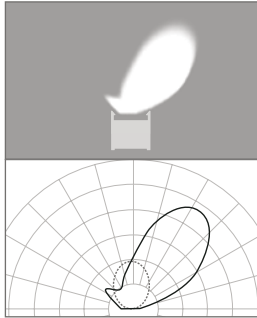
Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	4,000
lm/ft	1,000
Watts	19
W/ft	150
LPW	164

IA4560: Asymmetric 45° at 60° Tilt
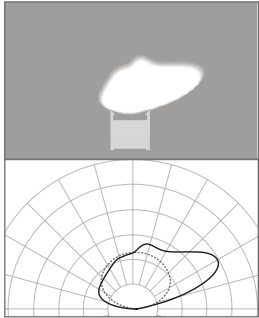
Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	4,000
lm/ft	1,000
Watts	19
W/ft	150
LPW	164

PATENTS & TRADEMARKS

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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

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France

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WO2015200268

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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