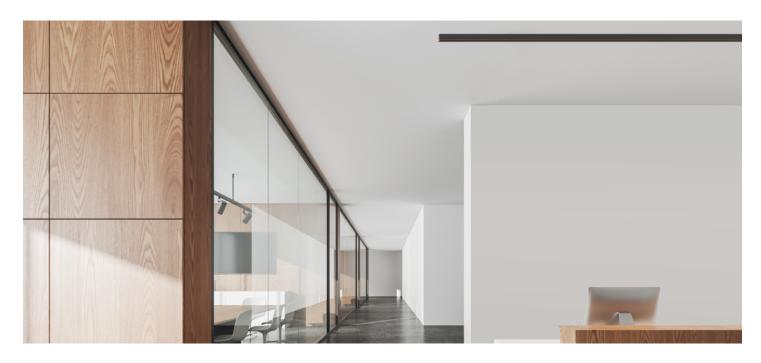
NANOBeam NCO Surface



0.95" Compact Linear LED Surface Mount





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**







FIXTURE ORDERING 1) FIXTURE DESIGN Project Name Fixture Type

PRODUCT	LEN	GTH	FIXTURE FINISH		END CAP		NANO CAVITY OPTICS (NCO) FINISH	
NBE95NCO-S								
0.95" Compact	2	2'	MWH	Matte White (RAL9003)	E1	Flat End Cap	OSQNCOWH	Square NCO, White
Linear LED	4	4'	MBK	Matte Black (RAL9005)			OSQNCOBK	Square NCO, Black
Surface Mount	6	6'	MGR	Matte Gray (RAL7001)			ORNCOWH	Round NCO, White
	8	8'	CAE	Clear Anodized Effect			ORNCOBK	Round NCO, Black
	10	10'	RAL_	Specify RAL#				
	X_	Specify X', Y"						

2) LED LIGHT ENGINE

CRI		CCT		DIRECT BE	AM PATTERN	DIRE	CT OUTPUT
S80	Std. 80 CRI	22	2200K	DNCO45	Nano Cavity Optics 45°	35	350 lm/ft
S90	Std. 90 CRI	27	2700K	DNCO35	Nano Cavity Optics 45°	50	500 lm/ft
HE80	High-Eff. 80 CRI	30	3000K	DNCO25	Nano Cavity Optics 25°	75	750 lm/ft
HE90	High-Eff. 90 CRI	35	3500K	X_	Specify Beam	100	1,000 lm/ft
HD95	High-Def. 95 CRI	40	4000K			Χ_	Specify Im/ft
SUN	Full SunLike	50	5000K				
SBIOS	Static BIOS	3022D	3000K to 2200K Dim-to-Warm				
DBIOS	Dynamic BIOS	3527D	3500K to 2700K Dim-to-Warm				
TBIOS	Tunable White BIOS	X_	Specify CCT				

3) FIXTURE POWER & CONTROLS

LINE V	OLTAGE (DC)	REMOT	E DRIVER (POWER)	EMER	GENCY BACKUP	REMOTI	E DRIVER BOX1	CONT	ROL SYSTEM ³
UNV 347	120/277V 347V	FDND FD01 FD10 FDDA FDDX	Factory Non-Dimming Factory 0-10V 1% Dim Factory 0-10V 10% Dim Factory DALI 0.1% Dim Factory DMX Dim	NN EMC EMB	Not Needed Emergency Circuit Emergency Battery (10 W — Remote) Specify Backup	NN RLDB ² RX2D ²	Not Needed Remote Linear Driver Box (driver included by default) Optional Remote XBox2 Driver, Up to 2 Drivers	NN LUT COO CAS X_	Not Needed Lutron Cooper Casambi Specify Control
		FDTR LD01	Factory TRIAC Dim Lutron Hi-Lume 1% Dim			RX3D ²	Optional Remote XBox3 Driver, Up to 3 Drivers		System
		LD05 ED00 ED01 EDDA X_	Lutron 5-Series 5% Dim eldoLED 0-10V 0.1% Dim eldoLED 0-10V 1% Dim eldoLED DALI 0.1% Dim Specify Driver			RX5D ²	Optional Remote XBox5 Driver, Up to 5 Drivers		

4) FIXTURE MOUNTING & CONNECTIONS

MOUNTING TYPE		POWER CORD			MOUNTING KIT		
DJ T1	Drywall/J-Box Mount	S24WH S24RK	24" White Cable Kit		SSMB	Stainless Steel Surface Mounting Bracket	

T1 9/16" Flat T-Bar MountT2 9/16" Bolt Slot T-Bar MountT3 15/16" Flat T-Bar Mount

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.

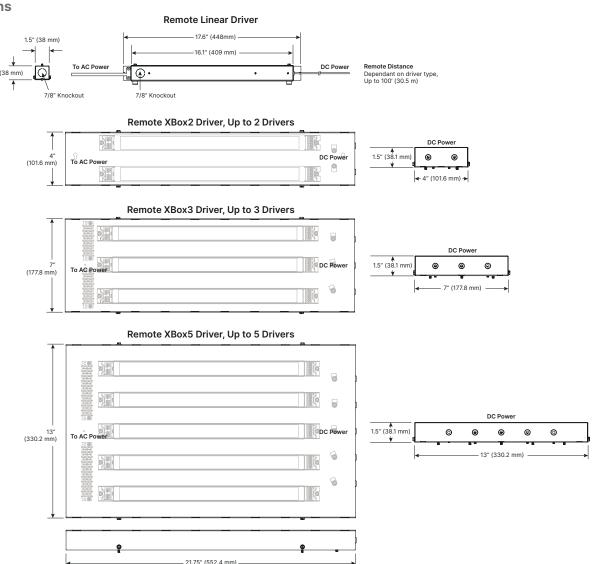
XICO XICOLED.COM SALES@XICOLED.CO

NOTES

Project Name	
Fixture Type	

REMOTE DRIVER BOX

Dimensions

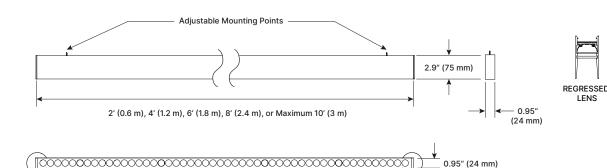


FIXTURE DESIGN

Dimensions



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

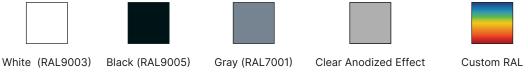


Length

Length Options 2', 4', 6', '8, 10' nominal, or custom within 3"

Finish

Housing Colors (Matte Finish)



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 Square and Round Nano Cavity Optics

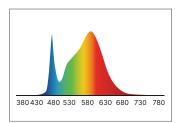
Lens Material Patented SmartOptics® made from Acrylic (PMMA)

Voltage

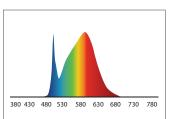
Fixture Voltage (AC) 120-277 VAC and 347 VAC, 50/60 Hz

LED SELECTION GUIDE

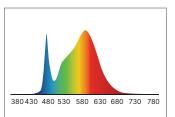
S80: Standard 80+ CRI



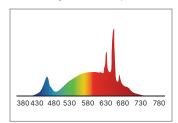
S90: Standard 90+ CRI



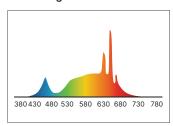
HE80: High-Efficiency 80+ CRI



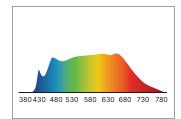
HE90: High-Efficiency 90+ CRI



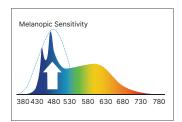
HD95: High-Definition 95+ CRI



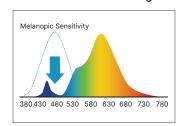
SUN: Full Spectrum "SunLike"



HCD: Human Centric Day



HCN: Human Centric Night



Static White Light (LED Light Engine Only)

					TYPICAL	LED DATA			
CODE	DESCRIPTION	ССТ	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	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

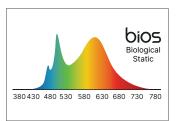


To learn more about BIOS Technology, please click or scan the QR Code.

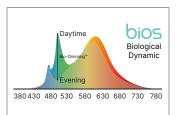


BIOS is offered in four Circadian LED Solutions with BIOS SkyBlue Technology — Biological Static, Biological Dynamic, Biological Tunable, and Biological Dim-to-Warm. BIOS SkyBlue™ Technology includes a blue peak at 490nm that provides an effective daytime circadian signal using standard architectural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

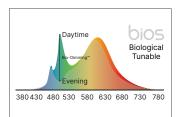
BIOS Static



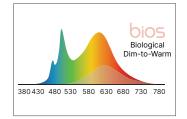
BIOS Dynamic



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 MOD	ULE TECHNOI	OGY GUIDE		
CODE	DESCRIPTION	Driver	Driver Voltage	сст	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		0-10V Intensity		Yes	Intensity Dimming & Spectrum Change Controlled Together	Removed with BIO-Dimming	
DBIOS-2	BIOS Dynamic (Two Channel)	BIODIM1	Dimming to 1% Dim-to-Dark	5 1 1	500K Shift	No	Intensity Dimming & Spectrum Change Controlled Separately	Removed by Adjusting "Spectrum Channel"
TBIOS	BIOS Tunable		0-10V Control of Intensity & CCT on Separate		Yes	Intensity Dimming & Spectrum Change Controlled Together	Removed with BIO-Dimming	
TBIOS-2	BIOS Tunable (Two Channel)	ATW / DTW	2 Channels / DALI Control of Intensity & CCT on Separate 2 Channels	Dims to 2700K	No	Intensity Dimming & Spectrum Change Controlled Separately	Removed by Adjusting "Spectrum Channel"	
DWBIOS	BIOS Dim-to-Warm				Yes	Intensity Dimming & Spectrum Change Controlled Together	Removed with BIO-Dimming	
DWBIOS-2	BIOS Dim-to-Warm (Two Channel)	_		Dims to 2200K	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 BoxesTo create a clean and organized power solution for multiple fixture installations see our XBox

(Optional) Specification Guide. Reach out to a XICO Sales Representative to discuss you projects needs.





Square NCOs Round NCOs

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.

Power Cords

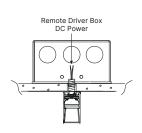
24" Cable Kit White and Black

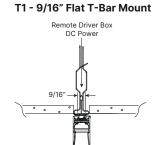
Mounting Kit

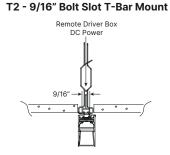
Surface Mounting Bracket Stainless Steel

Mounting Options

DJ - Drywall/J-Box Mount





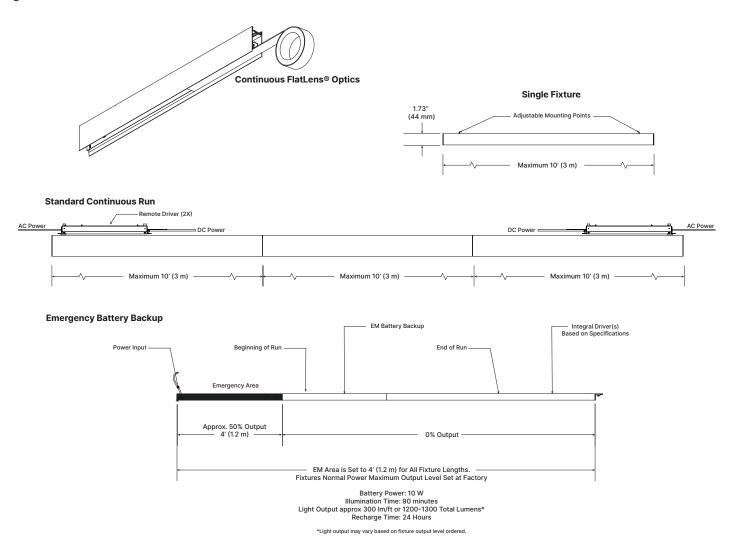




Standard Lengths & Continuous Runs

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.



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







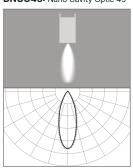
For details on our warranty and business terms, please click or scan the QR Code.

	BEAM PATTERN				
OPTIC	DNCO45	DNCO35	DNCO25		
Nano Cavity Optics (NCO)	•	•	•		

DIRECT PHOTOMETRICS (cont.)

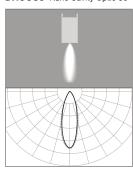
Static White Light

DNCO45: Nano Cavity Optic 45°

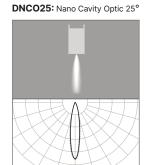


Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/ft	750
Watts	37
W/ft	9
LPW	82

DNCO35: Nano Cavity Optic 35°



Length	48"
LED	HE80
CRI/CCT	80+/3500k
Lumens	3,000
lm/ft	749
Watts	37
W/ft	9
LPW	82



Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/ft	750
Watts	37
W/ft	9
LPW	82

PATENTS & TRADEMARKS



To learn more about our unique technologies, please click or scan the QR Code.

Utility Patents

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

The Patent Corporation Treaty

World Intellectual Property Organization WO2015200268

Trademarks

United States US6672871, US6397231, US6373493, US6257728, US6190558, US6190559, US6142905, US6114408,

US6038234, US6025279, US6060740, US6257729, US5856164, US5734112, US5543304, US5309290,

US5309315, US4691124, US4640751

