## **NANO**Beam 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 **Project Name Fixture Type** 1) FIXTURE DESIGN **PRODUCT LENGTH FINISH END CAP OPTIC** NBE9545-S 0.95" Compact 2FT 2FT nominal MWH Matte White (RAL9003) E1 Flat End Cap ORL Regressed Lens Linear LED 4FT 4FT nominal MBK Matte Black (RAL9005) Round End Cap OCR Continuous Regressed Lens<sup>1</sup> Surface Mount 6FT Matte Gray (RAL7001) ONBWH Nano Baffle, White 6FT nominal MGR 8FT 8FT nominal CAE Clear Anodized Effect (Requires Regressed Lens) 10FT 10FT nominal RAL\_ Specify RAL# ONBBK Nano Baffle, Black X\_ Specify X', Y' (Requires Regressed Lens) 2) LED LIGHT ENGINE CRI ССТ DIRECT OUTPUT DIRECT BEAM PATTERN S80 Std. 80 CRI 22 2200K DLAM Lambertian 35 350 lm/ft Std. 90 CRI 27 2700K DBW60 S90 Batwing 60° 50 500 lm/ft High-Eff. 80 CRI 3000K HE80 30 DDA70 Double Asymmetric 70° 75 750 lm/ft Asymmetric 50° at 25° Tilt **HE90** High-Eff. 90 CRI 35 3500K DA5025 100 1,000 lm/ft Asymmetric 40° at 5° Tilt HD95 High-Def. 95 CRI 40 4000K DA4005 Specify Im/ft SUN Full SunLike 5000K DM55 Medium 55° 50 SBIOS Static BIOS 3022D 3000K to 2200K Dim-to-Warm Narrow 40° **DN40** Dynamic BIOS DRIOS 3527D 3500K to 2700K Dim-to-Warm Specify Beam X\_ Tunable White BIOS **TBIOS** $X_{-}$ Specify CCT 3) FIXTURE POWER & CONTROLS LINE VOLTAGE (DC) REMOTE DRIVER (POWER) **EMERGENCY BACKUP REMOTE DRIVER BOX<sup>2</sup>** CONTROL SYSTEM<sup>4</sup> UNV 120/277V **FDND Factory Non-Dimming** Not Needed NN Not Needed Not Needed 347 347V FD01 Factory 0-10V 1% Dim **EMC Emergency Circuit** RLDB<sup>3</sup> Remote Linear Driver Box LUT Lutron Factory 0-10V 10% Dim Emergency Battery (driver included by default) FD10 COO **EMB** Cooper Factory DALI 0.1% Dim (10 W — Remote) RX2D3 FDDA Optional Remote XBox2 Casambi CAS

### 4) FIXTURE MOUNTING & CONNECTIONS

**FDDX** 

**FDTR** 

LD01

LD05

**ED00** 

ED01 EDDA Factory DMX Dim

Factory TRIAC Dim

Lutron Hi-Lume 1% Dim

Lutron 5-Series 5% Dim

eldoLED 0-10V 0.1% Dim

eldoLED 0-10V 1% Dim

eldoLED DALI 0.1% Dim Specify Driver

MOI	JNTING TYPE	POWER CO	ORD	MOUNTIN	NG KIT
DJ	Drywall/J-Box Mount	S24WH	24" White Cable Kit	SSMB	Stainless Steel Surface Mounting Bracket
T1	9/16" Flat T-Bar Mount	S24BK	24" Black Cable Kit		g

Specify Backup

Driver, Up to 2 Drivers

Driver, Up to 3 Drivers

Optional Remote XBox5

Driver, Up to 5 Drivers

Optional Remote XBox3

RX3D3

RX5D<sup>3</sup>

X\_

Specify Control

System

T1 9/16" Flat T-Bar Mount
T2 9/16" Bolt Slot T-Bar Mount
T3 15/16" Flat T-Bar Mount

Footnotes: <sup>1</sup> Continuous Regressed Lens ships on a roll for seamless lens installation. <sup>2</sup> Remote distance is dependent on driver type, up to 100' (30.5 m). <sup>3</sup> Creates a clean and organized power solution for multiple fixture installations. <sup>4</sup> The control system and driver must be compatible.

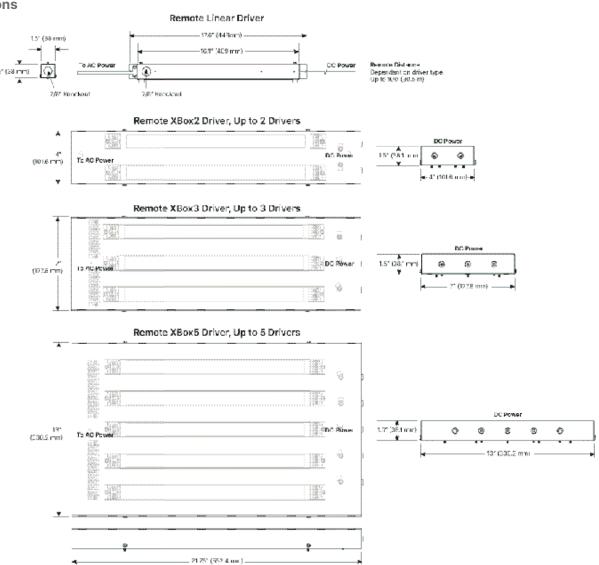
X\_

XICO.

	[	
	Project Name	
IOTES	Fixture Type	

### **REMOTE DRIVER BOX**



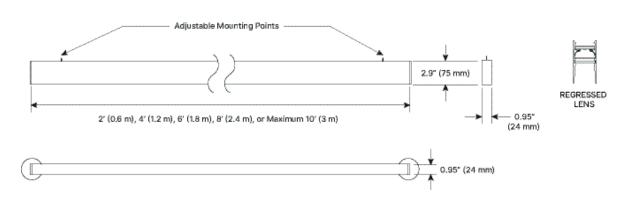


### **FIXTURE DESIGN**

### **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** Regressed, Continuous Regressed, and Nano Baffle (Requires Regressed Lens)

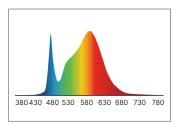
**Lens Material** Patented SmartOptics® made from Acrylic (PMMA)

Voltage

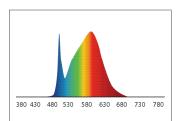
**Fixture Voltage (AC)** 120-277 VAC and 347 VAC, 50/60 Hz

### **LED SELECTION GUIDE**

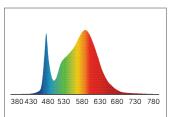
S80: Standard 80+ CRI



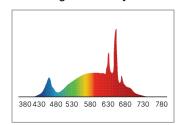
S90: Standard 90+ CRI



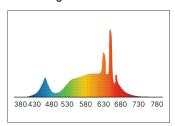
HE80: High-Efficiency 80+ CRI



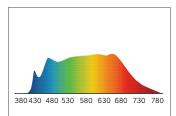
HE90: High-Efficiency 90+ CRI



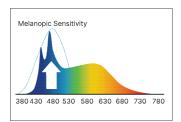
HD95: High-Definition 95+ CRI



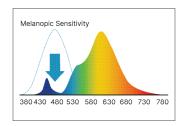
SUN: Full Spectrum "SunLike"



**HCD:** Human Centric Day



**HCN:** Human Centric Night



**Static White Light (LED Light Engine Only)** 

			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**

	CCT SELECTED								
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**

# bios

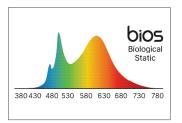
**Choosing Your BIOS Solution** 

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.

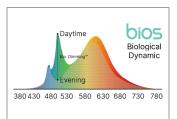
To learn more about BIOS Technology, please click or scan the QR Code.



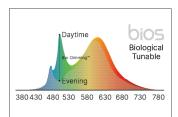
### **BIOS Static**



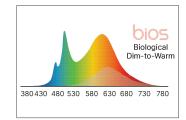
### **BIOS Dynamic**



### **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**

			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	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 ATW / 2 Channels / DTW 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	1				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

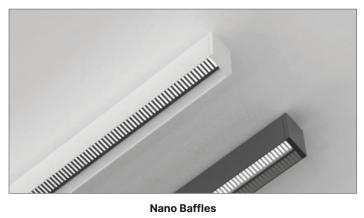
CooperCompatible driverCasambi (wireless)Compatible driver

**XBox** 

**Remote Driver Boxes**To 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.





**Regressed 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.

**Power Cords** 

24" Cable Kit White and Black

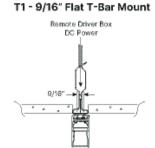
**Mounting Kit** 

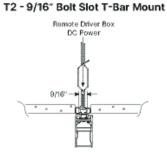
**Surface Mounting Bracket** Stainless Steel

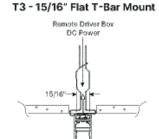
### **Mounting Options**

DJ - Drywall/J-Box Mount





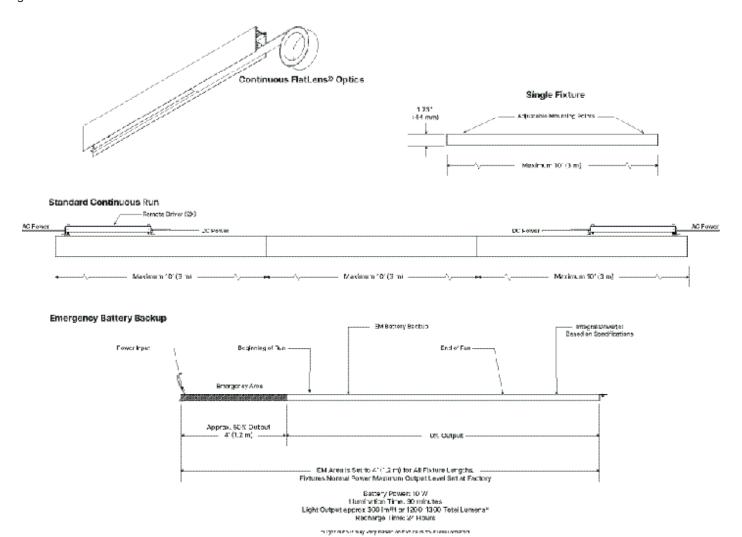




### **Standard Lengths & Continuous Runs**

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







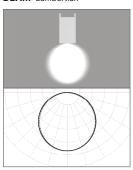
For details on our warranty and business terms, please click or scan the QR Code.

	BEAM PATTERN								
OPTIC	DLAM	DBW60	DDA70	DA5025	DA4005	DM55	DN40		
Regressed Lens	•	•	•	•	•	•	•		
Nano Baffle	•	•	•	•	•	•	•		

### **DIRECT PHOTOMETRICS**

### **Static White Light**

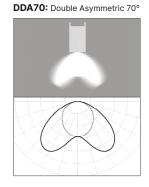
**DLAM:** Lambertian



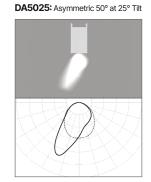
Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/ft	765
Watts	27
W/ft	7
LPW	111

DBW60: Batwing 60°

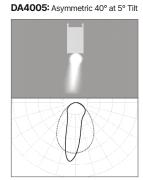
Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/ft	744
Watts	24
W/ft	6
I DW	123



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

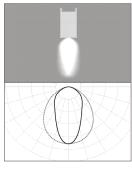


Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/ft	749
Watts	23
W/ft	6
LPW	130



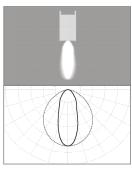
Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/ft	738
Watts	23
W/ft	6
LPW	128

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**



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

