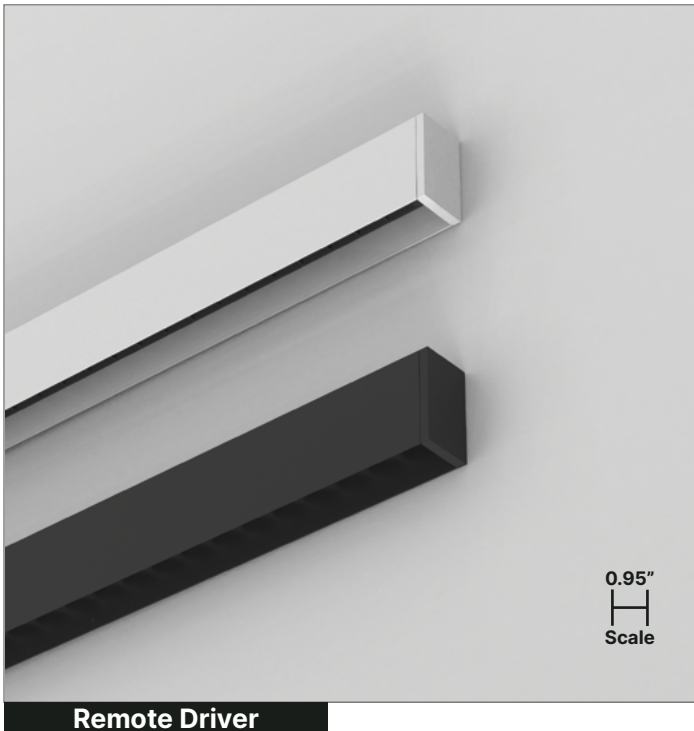


# NANOBeam NCO Wall

## 0.95" Compact Linear LED Wall 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**

**Declare**



### FIXTURE ORDERING

Project Name

#### 1) FIXTURE DESIGN

Fixture Type

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

#### 2) LED LIGHT ENGINE

CRI	CCT	DIRECT BEAM PATTERN	DIRECT OUTPUT	INDIRECT BEAM PATTERN	INDIRECT OUTPUT
S80 Std. 80 CRI S90 Std. 90 CRI HE80 High-Eff. 80 CRI HE90 High-Eff. 90 CRI HD95 High-Def. 95 CRI SUN Full SunLike SBIOS Static BIOS DBIOS Dynamic BIOS TBIOS Tunable White BIOS	22 2200K 27 2700K 30 3000K 35 3500K 40 4000K 50 5000K 3022D 3000K to 2200K 3527D 3500K to 2700K X_ Dim-to-Warm Specify CCT	DNCO45 Nano Cavity Optics 45° DNCO35 Nano Cavity Optics 35° DNCO25 Nano Cavity Optics 25° X_ Specify Beam	35 350 lm/ft 50 500 lm/ft 75 750 lm/ft 100 1,000 lm/ft X_ Specify lm/ft	NN Not Needed ILAM Lambertian IBW120 Batwing 120° IFT150 FlatTop 150° IA6040 Asymmetric 60° at 40° Tilt IA4560 Asymmetric 45° at 60° Tilt X_ Specify Beam	NN Not Needed 35 350 lm/ft 50 500 lm/ft 75 750 lm/ft 100 1,000 lm/ft X_ Specify lm/ft

#### 3) FIXTURE POWER & CONTROLS

LINE VOLTAGE (DC)	REMOTE DRIVER (POWER)	EMERGENCY BACKUP	REMOTE DRIVER BOX <sup>1</sup>	CONTROL SYSTEM <sup>3</sup>
UNV 120/277V 347 347V	FDND Factory Non-Dimming FD01 Factory 0-10V 1% Dim FD10 Factory 0-10V 10% Dim FDDA Factory DALI 0.1% Dim FDDX Factory DMX Dim 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	NN Not Needed EMC Emergency Circuit EMB Emergency Battery (10 W — Remote) X_ Specify Backup	NN Not Needed RLDB <sup>2</sup> Remote Linear Driver Box (driver included by default) RX2D <sup>2</sup> Optional Remote XBox2 Driver, Up to 2 Drivers RX3D <sup>2</sup> Optional Remote XBox3 Driver, Up to 3 Drivers RX5D <sup>2</sup> Optional Remote XBox5 Driver, Up to 5 Drivers	NN Not Needed LUT Lutron COO Cooper CAS Casambi X_ Specify Control System

#### 4) FIXTURE MOUNTING & CONNECTIONS

MOUNTING TYPE

MOUNTING KIT

WM Wall Mount	WM2WH 2.8" White Stainless Steel Wall Mounting Plate WM2BK 2.8" Black Stainless Steel Wall Mounting Plate
---------------	--

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

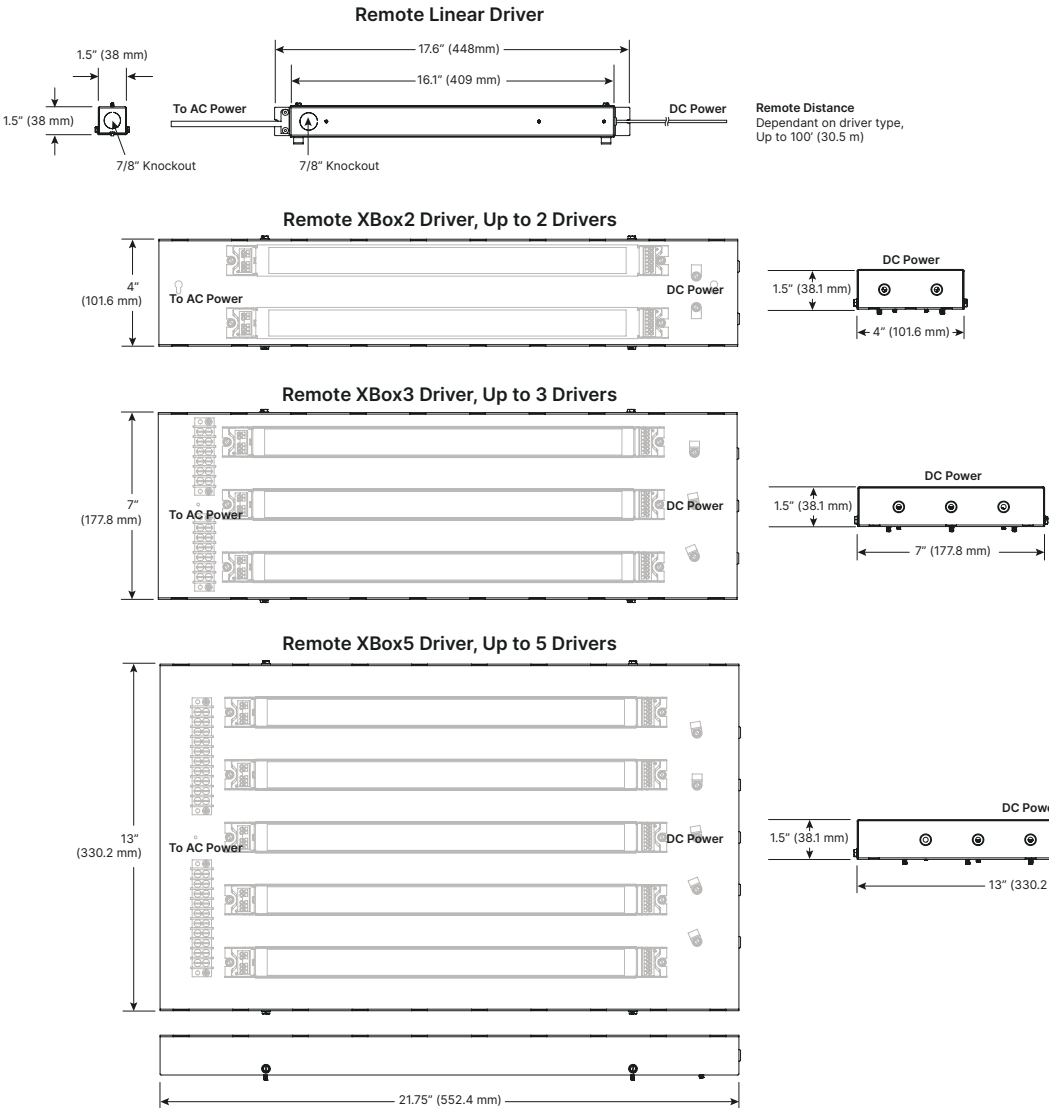
NOTES

Project Name

Fixture Type

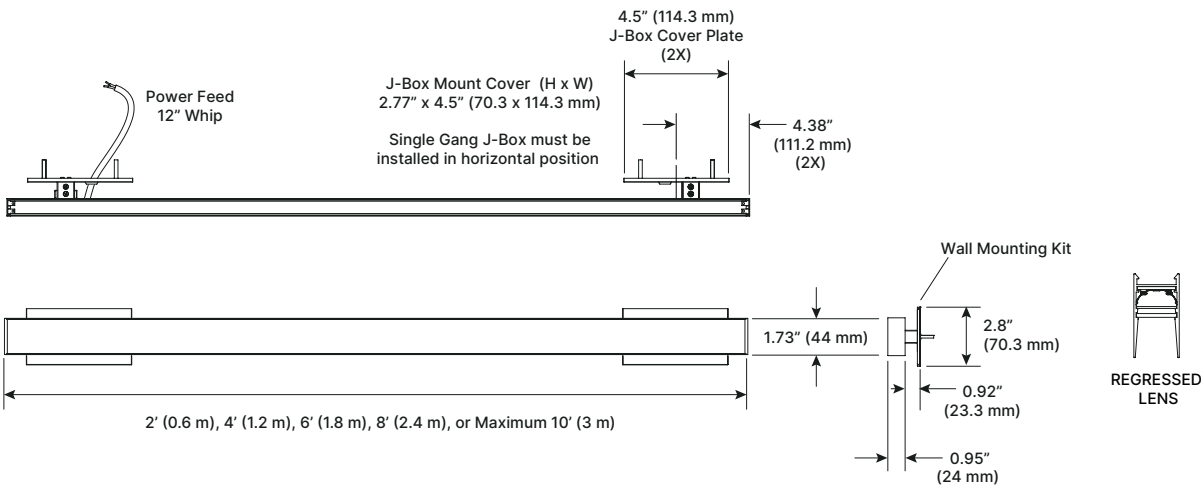
REMOTE DRIVER BOX

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)



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

Square and Round Nano Cavity Optics

Lens Material

Patented SmartOptics® made from Acrylic (PMMA)

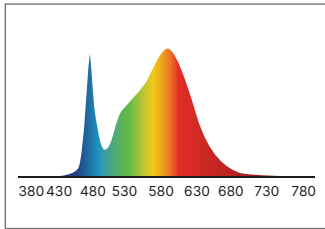
Voltage

Fixture Voltage (AC)

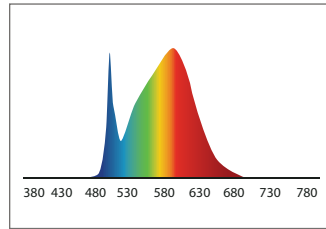
120-277 VAC and 347 VAC, 50/60 Hz

## LED SELECTION GUIDE

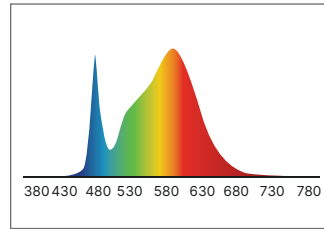
**S80: Standard 80+ CRI**



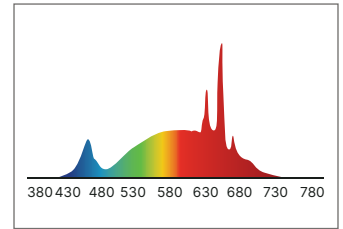
**S90: Standard 90+ CRI**



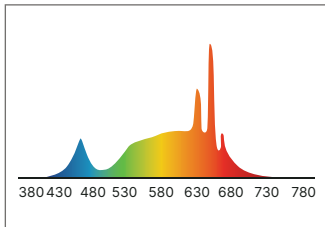
**HE80: High-Efficiency 80+ CRI**



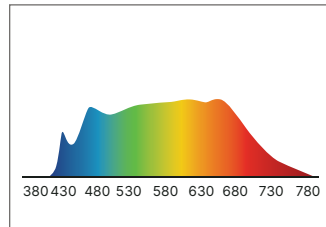
**HE90: High-Efficiency 90+ CRI**



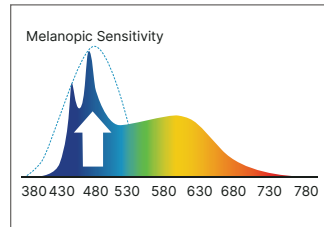
**HD95: High-Definition 95+ CRI**



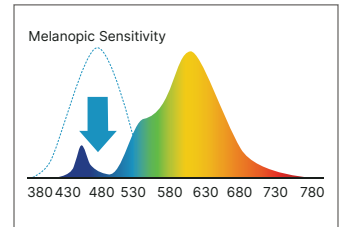
**SUN: Full Spectrum "SunLike"**



**HCD: Human Centric Day**



**HCN: Human Centric Night**



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

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

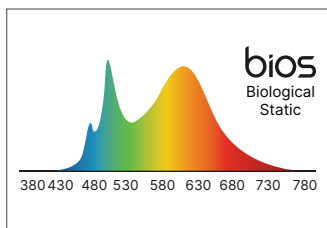
BIOS is offered in four Circadian LED Solutions with BIOS SkyBlue Technology — Biological Static, Biological Dynamic, Biological Tunable, and Biological Dim-to-Warm. BIOS SkyBlue™ Technology includes a blue peak at 490nm that provides an effective daytime circadian signal using standard architectural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

**bios**

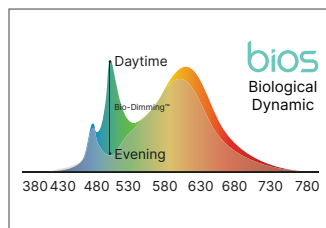
To learn more about BIOS Technology, please click or scan the QR Code.



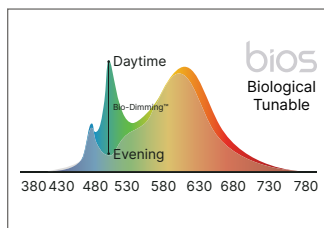
**BIOS Static**



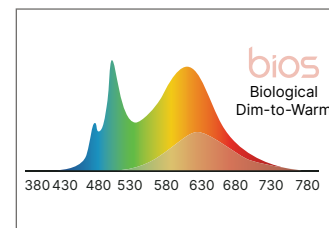
**BIOS Dynamic**



**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

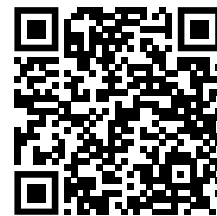
CODE	DESCRIPTION	BIO-DIMMING MODULE TECHNOLOGY GUIDE					
		Driver	Driver Voltage	CCT	Requires BIO-Dimming Module	Lighting Control	BIOS SkyBlue (490nm)
SBIOS	BIOS Static	DIM1	0-10V Dimming to 1% Dim-to-Dark	No CCT Change	No	Intensity Dimming Control Only	Always Present
DBIOS	BIOS Dynamic	BIODIM1	0-10V 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



### Control Systems

**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)

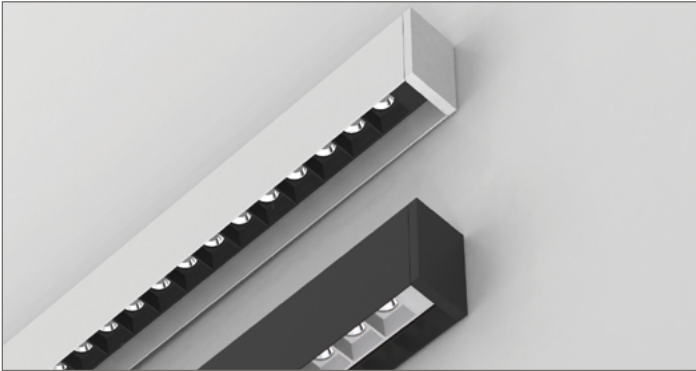
**Lutron** Hi-Lume 1% Dimming and 5-Series 5% Dimming

**Cooper** Compatible driver

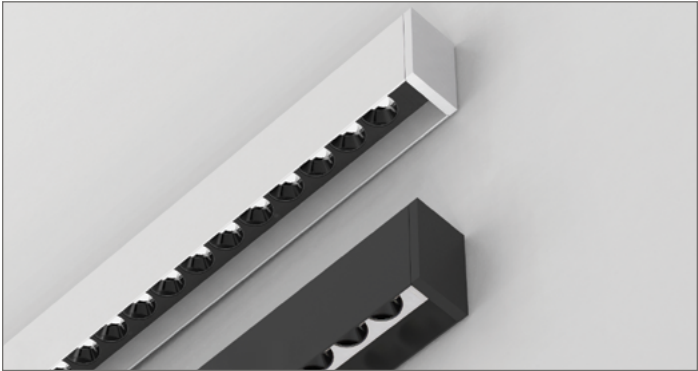
**Casambi (wireless)** Compatible driver

### 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 your project's needs.



Square NCOs



Round NCOs

FIXTURE MOUNTING & CONNECTIONS

Mounting Type

**Wall Mount** Installs onto a wall. Available with a range of accessories, mounts and inserts that provide easy customization of visual appearance and performance enhancements.

Mounting Kit

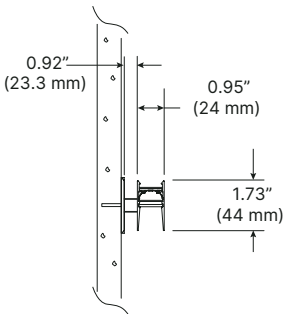
**Wall Mounting Kit** 2.8" Stainless Steel Wall Mounting Plate, White and Black

Power Feed

**Power Whip** 12"

Mounting Option

WM - Wall Mount

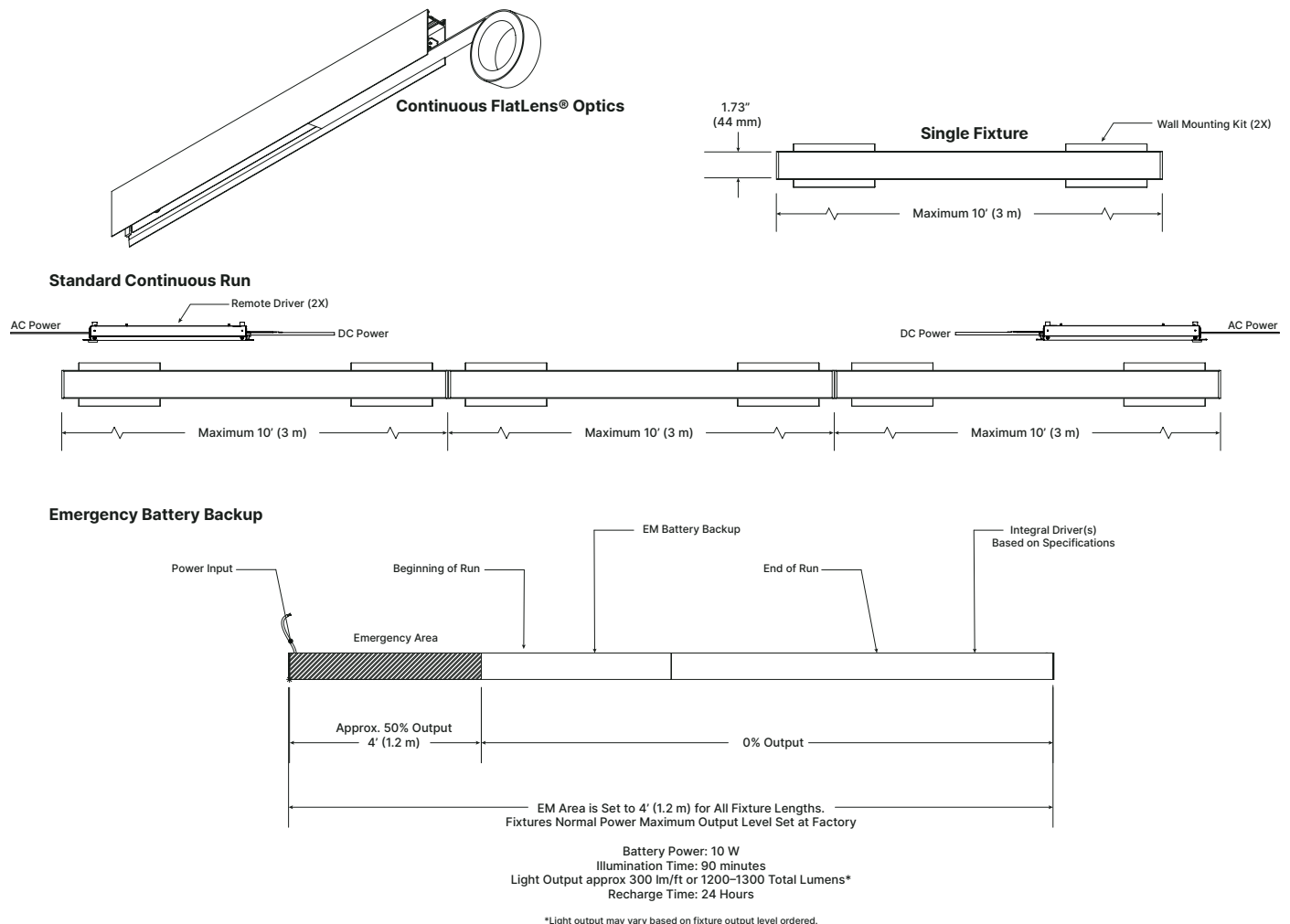




### Standard Lengths & Continuous Runs

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](http://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

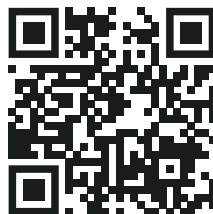
### Quality Assurance

Each product is engineered reliability and quality assurance tested

## Warranty & Terms

### 5-YR Warranty

### Business Terms



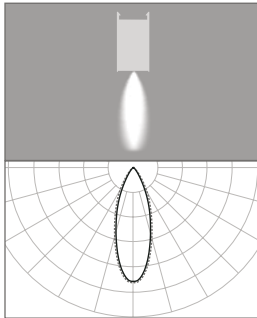
For details on our warranty and business terms, please click or scan the QR Code.

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

## DIRECT PHOTOMETRICS (cont.)

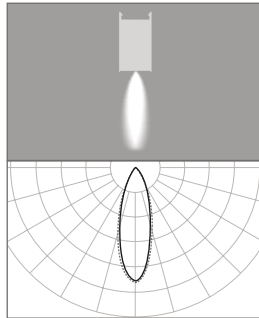
Static White Light

**DNCO45:** Nano Cavity Optic 45°



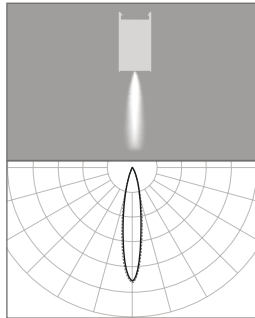
**Length** 48"  
**LED** HE80  
**CRI/CCT** 80+/3500K  
**Lumens** 3,000  
**lm/ft** 750  
**Watts** 37  
**W/ft** 9  
**LPW** 82

**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

**DNCO25:** Nano Cavity Optic 25°

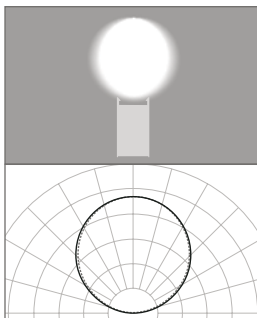


**Length** 48"  
**LED** HE80  
**CRI/CCT** 80+/3500K  
**Lumens** 3,000  
**lm/ft** 750  
**Watts** 37  
**W/ft** 9  
**LPW** 82

## INDIRECT PHOTOMETRICS

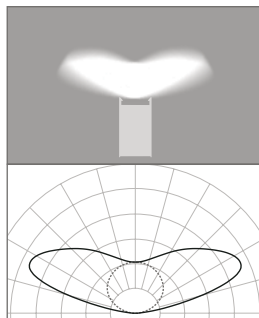
Static White Light

**ILAM:** Lambertian



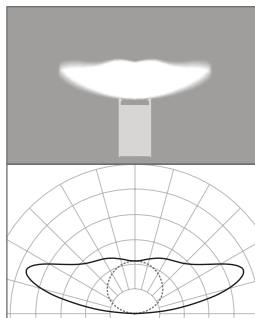
**Length** 48"  
**LED** HE80  
**CRI/CCT** 80+/3500K  
**Lumens** 4,000  
**lm/ft** 1,000  
**Watts** 28  
**W/ft** 7  
**LPW** 150

**IBW120:** Batwing 120°



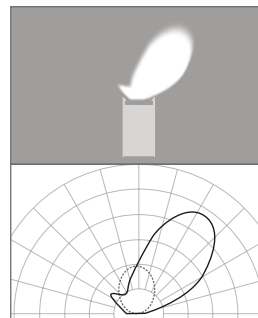
**Length** 48"  
**LED** HE80  
**CRI/CCT** 80+/3500K  
**Lumens** 4,000  
**lm/ft** 1,002  
**Watts** 25  
**W/ft** 6.3  
**LPW** 159

**IFT150:** FlatTop 150°



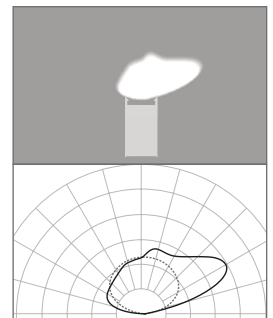
**Length** 48"  
**LED** HE80  
**CRI/CCT** 80+/3500K  
**Lumens** 4,000  
**lm/ft** 1,004  
**Watts** 26  
**W/ft** 6.5  
**LPW** 155

**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

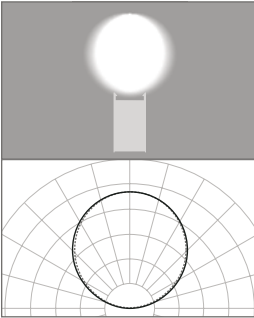


**Length** 48"  
**LED** HE80  
**CRI/CCT** 80+/3500K  
**Lumens** 4,000  
**lm/ft** 1,000  
**Watts** 19  
**W/ft** 150  
**LPW** 164

INDIRECT PHOTOMETRICS

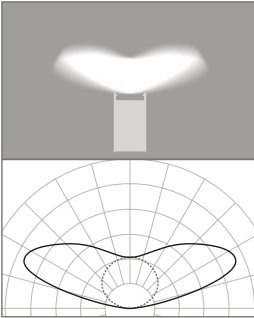
Static White Light

ILAM: Lambertian



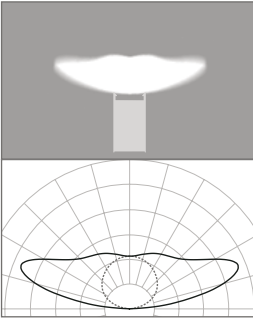
Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	4,000
lm/ft	1,000
Watts	28
W/ft	7
LPW	150

IBW120: Batwing 120°



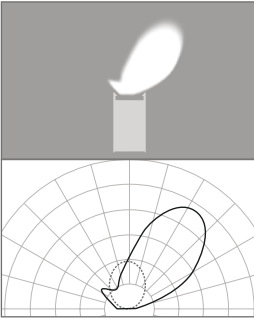
Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	4,000
lm/ft	1,002
Watts	25
W/ft	6.3
LPW	159

IFT150: FlatTop 150°



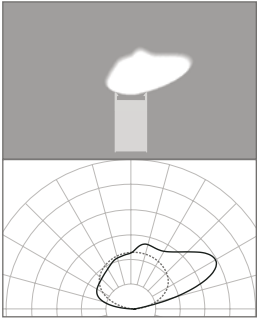
Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	4,000
lm/ft	1,004
Watts	26
W/ft	6.5
LPW	155

IA6040: Asymmetric 60° at 40° Tilt



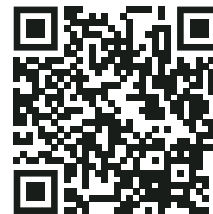
Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	4,000
lm/ft	1,000
Watts	19
W/ft	150
LPW	164

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

<b>United States</b>	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
<b>Canada</b>	CA2702600, CA2702685, CA2702690
<b>France</b>	FREP0800658
<b>Germany</b>	DEEP0800658
<b>Great Britain</b>	GB2492541, GB2492542, GBEP0800658, GB2492398
<b>Japan</b>	JP03958359
<b>Netherlands</b>	NLEP0800658
<b>Taiwan</b>	FTW360813B
<b>European Patent Organization</b>	EP0843203, EP0843203

### Design Patents

<b>United States</b>	USD719282, USD717973, USD669606, USD669608, USD669609, USD669614, USD663056
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### The Patent Corporation Treaty

<b>World Intellectual Property Organization</b>	WO2015200268
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### Trademarks

<b>United States</b>	US6672871, US6397231, US6373493, US6257728, US6190558, US6190559, US6142905, US6114408, US6038234, US6025279, US6060740, US6257729, US5856164, US5734112, US5543304, US5309290, US5309315, US4691124, US4640751
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