NANOSquare NCO Wall

0.95" Compact Linear LED Wall Mount

XICO®

0.95"

Scale
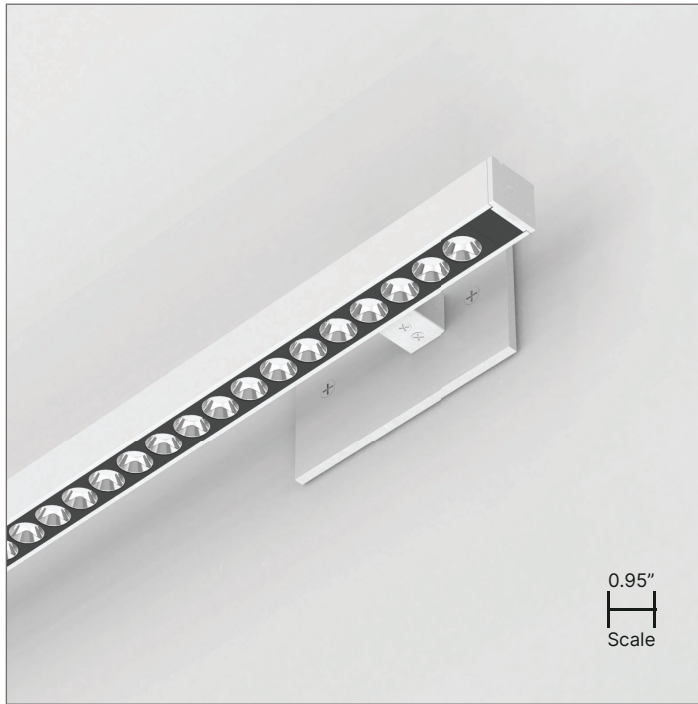
Remote Driver

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

BABA Act
Build America Buy America Act

UL LISTED

RoHS compliant

mindful MATERIALS

Red List Free

Designed & Built in
BOSTON

Declare

FIXTURE ORDERING

Project Name	
Fixture Type	

1) FIXTURE DESIGN

PRODUCT	TYPE	FIXTURE LENGTH	FIXTURE FINISH	END CAP	NCO FINISH
0.95" Compact Linear LED Wall Mount	AM1 1" Wall Mount FM Flush Mount	2FT Standard 2ft 4FT Standard 4ft 6FT Standard 6ft 8FT Standard 8ft 10FT Standard 10ft 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 Dim-to-Warm 3527D 3500K to 2700K Dim-to-Warm X_ 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 Lambertian ILAM Batwing 120° IBW120 FlatTop 150° IFT150 Asymmetric IA6040 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

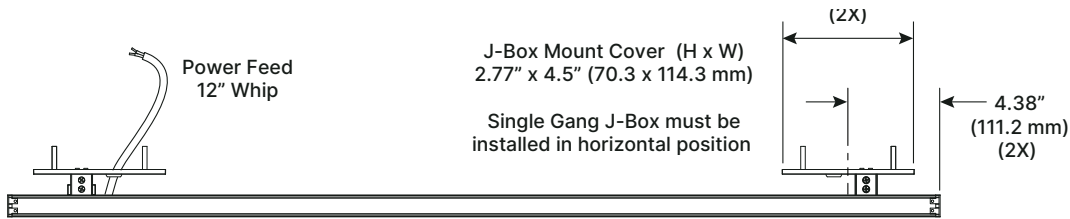| LINE VOLTAGE (DC)	REMOTE DRIVER (POWER)	EMERGENCY BACKUP	REMOTE DRIVER BOX[1]	CONTROL SYSTEM[3]
UNV 120/277V 347 347V	FDND Factory Non-Dimming FD01 Factory 0-10V 1% Dim FD10 Factory 0-10V 10% Dim FDDA Factory DALI 0.1% Dim FDDX Factory DMX Dim FDTR Factory TRIAC Dim LD01 Lutron Hi-Lume 1% Dim LD05 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[2] Remote Linear Driver Box (driver included by default) RX2D[2] Optional Remote XBox2 Driver, Up to 2 Drivers RX3D[2] Optional Remote XBox3 Driver, Up to 3 Drivers RX5D[2] 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 KIT

WM2WH   2.8" White Stainless Steel Wall Mounting Plate
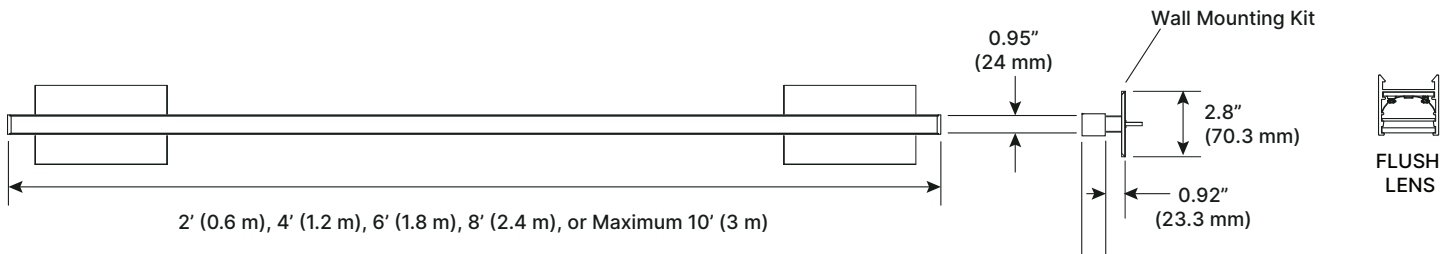WM2BK   2.8" Black Stainless Steel Wall Mounting Plate

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.

FIXTURE DESIGN

Dimensions

Power Feed
12" Whip

J-Box Mount Cover (H x W)
2.77" x 4.5" (70.3 x 114.3 mm)

Single Gang J-Box must be
installed in horizontal position

(2X)

4.38"
(111.2 mm)
(2X)

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

Wall Mounting Kit

0.95"
(24 mm)

2.8"
(70.3 mm)

0.92"
(23.3 mm)

FLUSH
LENS

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

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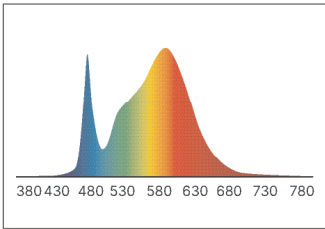
Lens Material   Patented SmartOptics® made from Acrylic (PMMA)
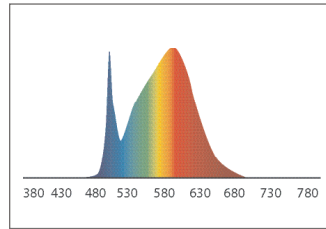
Voltage

Fixture Voltage (AC)   120–277 VAC and 347 VAC, 50/60 Hz
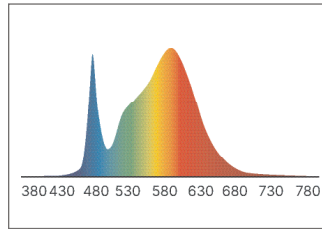
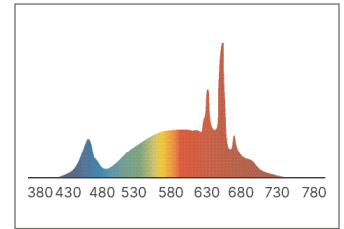## LED SELECTION GUIDE

S80: Standard 80+ CRI
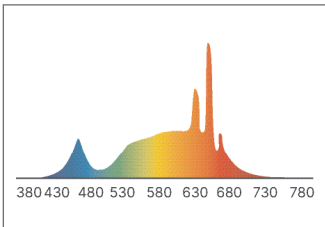
S90: Standard 90+ CRI
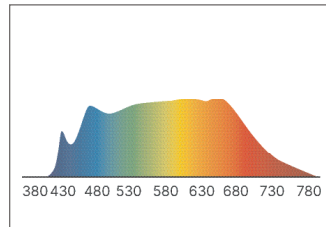
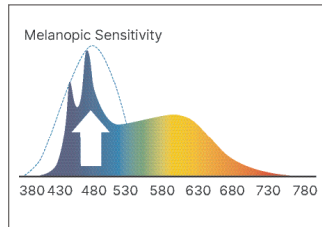HE80: High-Efficiency 80+ CRI

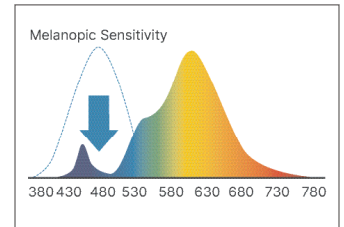HE90: High-Efficiency 90+ CRI

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

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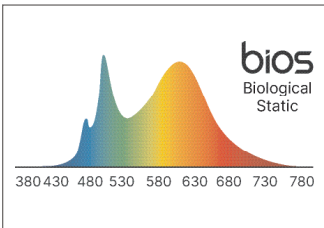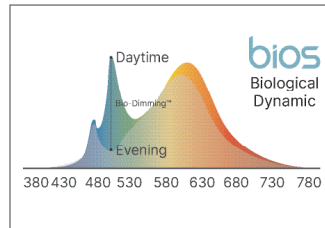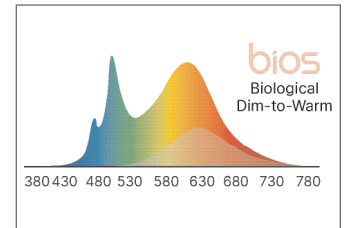
BIOS Static	BIOS Dynamic	BIOS Tunable	BIOS Dim-to-Warm
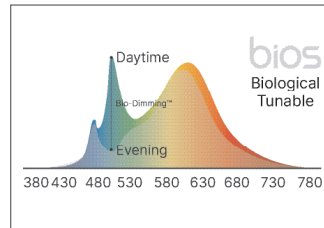
Daytime
No color change when dimmed

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

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 — 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.
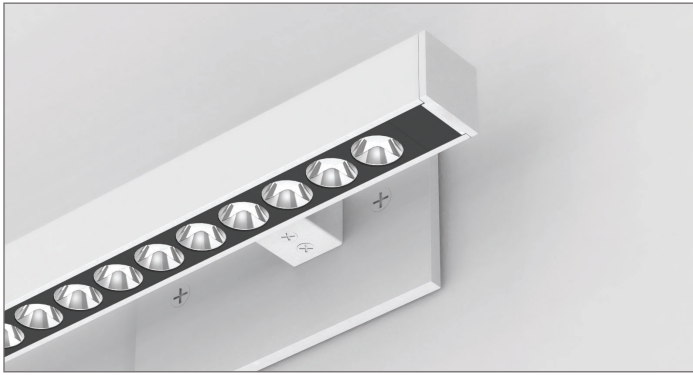
Wall Arm Mount 1" Standoff (WAM1)

Wall Flush Mount (WFM)

FIXTURE MOUNTING & CONNECTIONS

Mounting Type

Wall Mount   Installs onto a wall either flush or with use of arm mounting.

Available with a range of accessories, mounts and inserts that provide easy customization of visual appearance and performance enhancements.
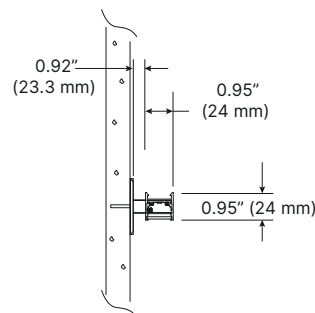
Mounting Kit

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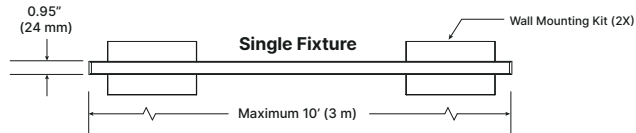
Power Feed

Power Whip   12" standard

WM - Wall Mount

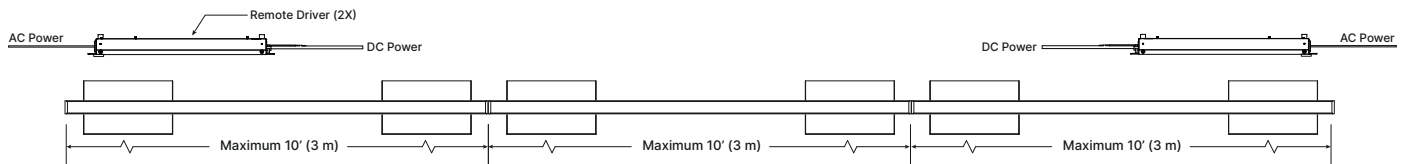0.92"
(23.3 mm)

0.95"
(24 mm)

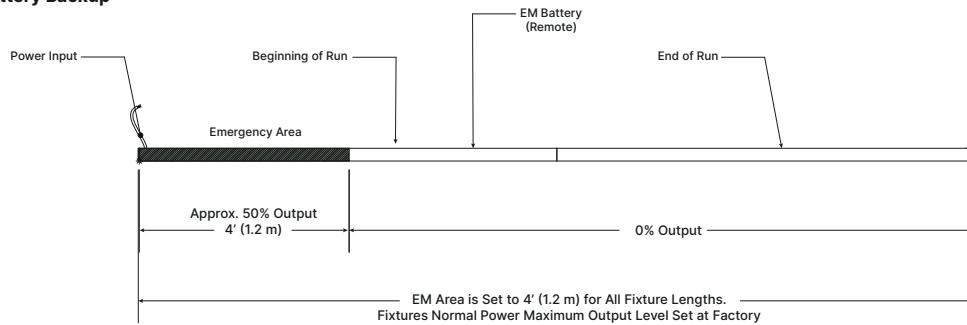0.95" (24 mm)

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.

0.95"
(24 mm)

Wall Mounting Kit (2X)

Single Fixture

Maximum 10' (3 m)

Standard Continuous Run

Remote Driver (2X)

AC Power

DC Power

DC Power

AC Power

Maximum 10' (3 m)

Maximum 10' (3 m)

Maximum 10' (3 m)

Emergency Battery Backup

EM Battery
(Remote)

Power Input

Beginning of Run

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

4' (1.2 m)

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	UL LISTED CSA RoHS 2002/95/EC IC RATED
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

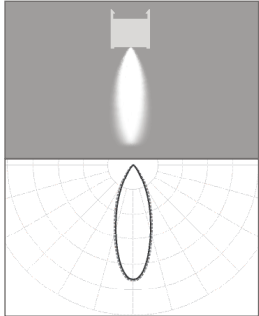### Warranty & Terms

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
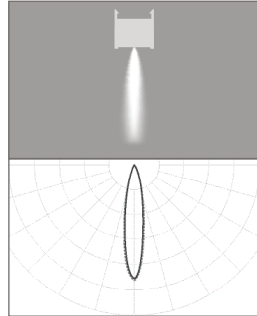
DNCO45: Nano Cavity Optic 45°

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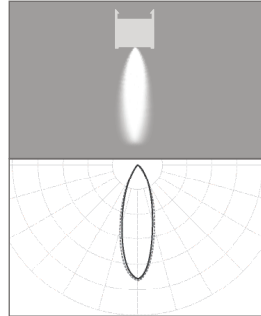
Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/ft	749
Watts	37
W/ft	9
LPW	82

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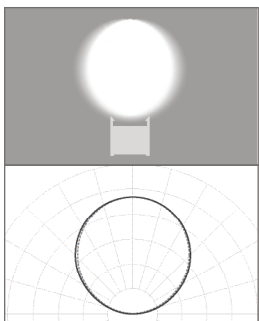
Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	4,000
lm/ft	1,000
Watts	28
W/ft	7
LPW	150

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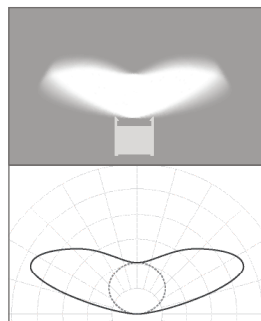
Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	4,000
lm/ft	1,002
Watts	25
W/ft	6.3
LPW	159

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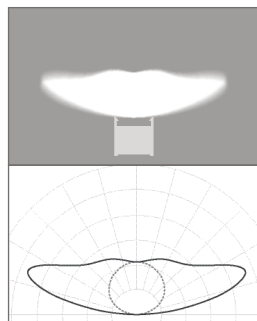
Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	4,000
lm/ft	1,004
Watts	26
W/ft	6.5
LPW	155

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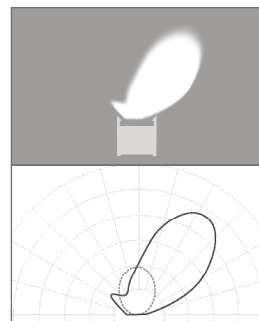
Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	4,000
lm/ft	1,000
Watts	19
W/ft	150
LPW	164

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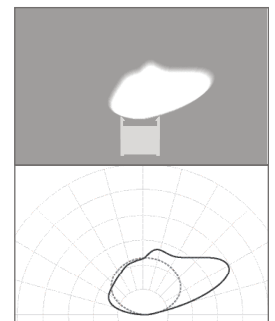
Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	4,000
lm/ft	1,000
Watts	19
W/ft	150
LPW	164

PATENTS & TRADEMARKS

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

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
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