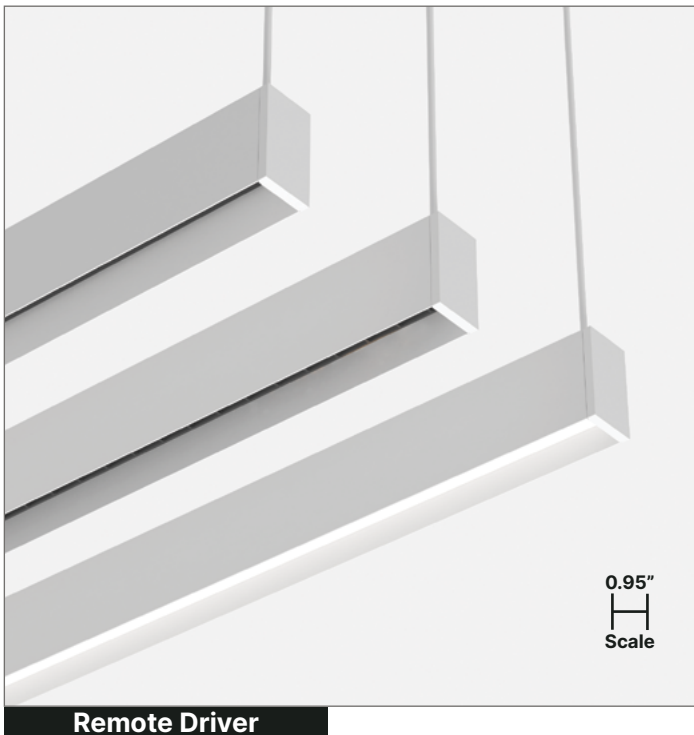


NANOBeam Pendant

0.95" Compact Linear LED Pendant 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	FINISH	END CAP	OPTIC (DIRECT ONLY)
NBE95-P				
0.95" Compact	12 12"	MWH Matte White (RAL9003)	E1 Flat End Cap	ORL Regressed Lens
Linear LED	24 24"	MBK Matte Black (RAL9005)		OCRL Continuous Regressed Lens ¹
Pendant Mount	48 48"	MGR Matte Gray (RAL7001)		ONC Nano Cavity Optics
	72 72"	CAE Clear Anodized Effect		ONBWH Nano Baffle, White (Requires Regressed Lens)
	96 96"	RAL_ Specify RAL#		ONBBK Nano Baffle, Black (Requires Regressed Lens)
	120 120"			
	X_ Specify X', Y"			

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	DBW90 Batwing 90°	50 500 lm/ft	ILAM Lambertian	35 350 lm/ft
HE80 High-Eff. 80 CRI	30 3000K	DBW60 Batwing 60°	75 750 lm/ft	IBW120 Batwing 120°	50 500 lm/ft
HE90 High-Eff. 90 CRI	35 3500K	DDA70 Double Asymmetric 70°	100 1,000 lm/ft	IFT150 FlatTop 150°	75 750 lm/ft
HD95 High-Def. 95 CRI	40 4000K	DA5025 Asymmetric 50°	X_ Specify lm/ft	IA6040 Asymmetric 60° at 40° Tilt	100 1,000 lm/ft
SUN Full SunLike	50 5000K	at 25° Tilt		Asymmetric 45° at 60° Tilt	X_ Specify lm/ft
SBIOS Static BIOS	3022D 3000K to	DA4005 Asymmetric 40°		IA4560	
DBIOS Dynamic BIOS	2200K	at 5° Tilt		X_ Specify Beam	
TBIOS Tunable White BIOS	Dim-to-Warm	DM55 Medium 55°			
	3527D 3500K to	DN40 Narrow 40°			
	2700K	DNCO45 Nano Cavity Optics 45°			
	X_ Dim-to-Warm	DNCO35 Nano Cavity Optics 35°			
	X_ Specify CCT	DNCO25 Nano Cavity Optics 25°			
		X_ Specify Beam			

3) FIXTURE POWER & CONTROLS

LINE VOLTAGE (DC)	REMOTE DRIVER (POWER)	EMERGENCY BACKUP	REMOTE DRIVER BOX ²	CONTROL SYSTEM ⁴
UNV 120/277V	FDND Factory Non-Dimming	NN Not Needed	RLDB³ Remote Linear Driver Box (driver included by default)	NN Not Needed
347 347V	FD01 Factory 0-10V 1% Dim	EMC Emergency Circuit	RX2D³ Optional Remote XBox2 Driver, Up to 2 Drivers	LUT Lutron
	FD10 Factory 0-10V 10% Dim	EMB Emergency Battery (Remote)	RX3D³ Optional Remote XBox3 Driver, Up to 3 Drivers	COO Cooper
	FDDA Factory DALI 0.1% Dim	X_ Specify Backup	RX5D³ Optional Remote XBox5 Driver, Up to 5 Drivers	CAS Casambi
	FDDX Factory DMX Dim			X_ Specify Control System
	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			

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

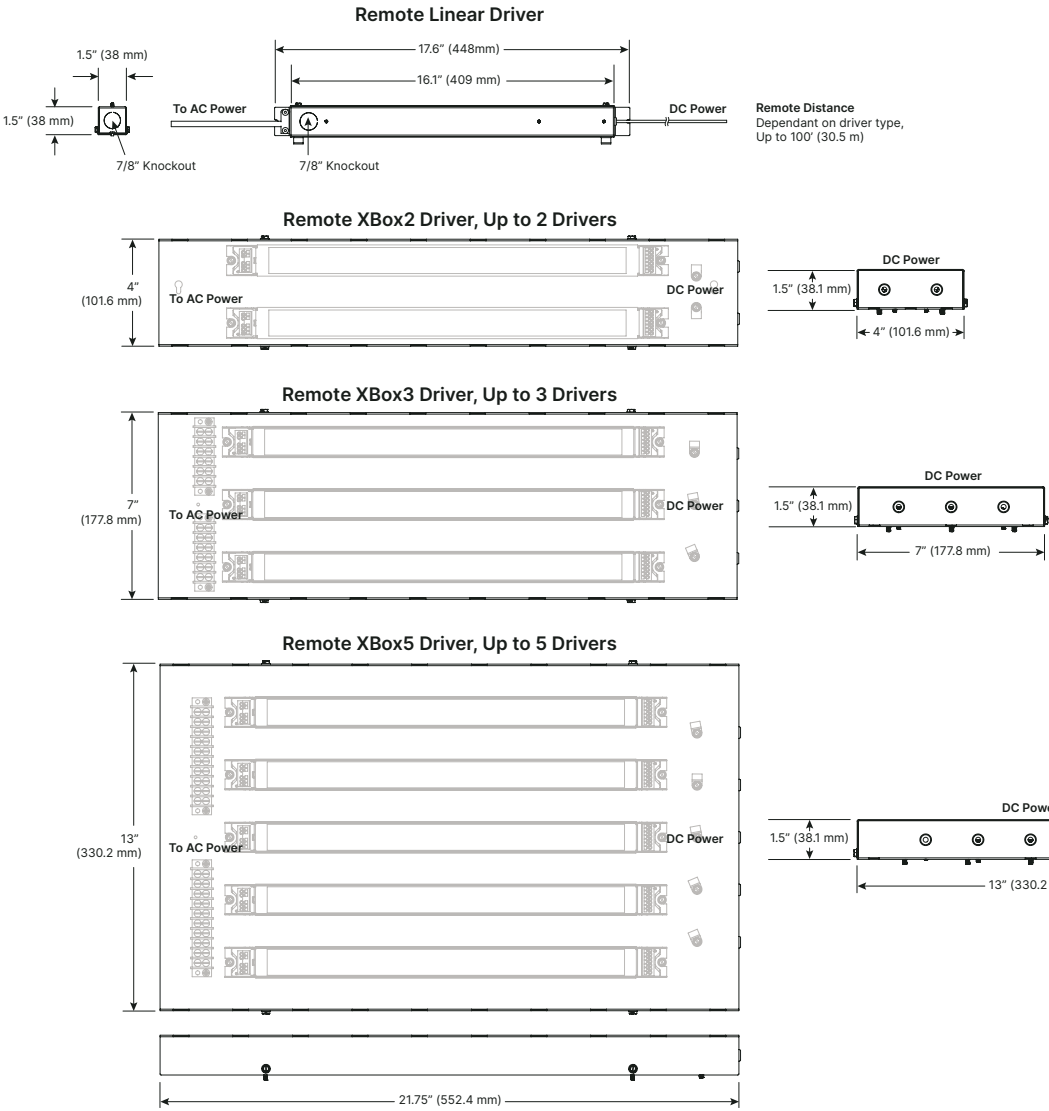
NOTES

Project Name

Fixture Type

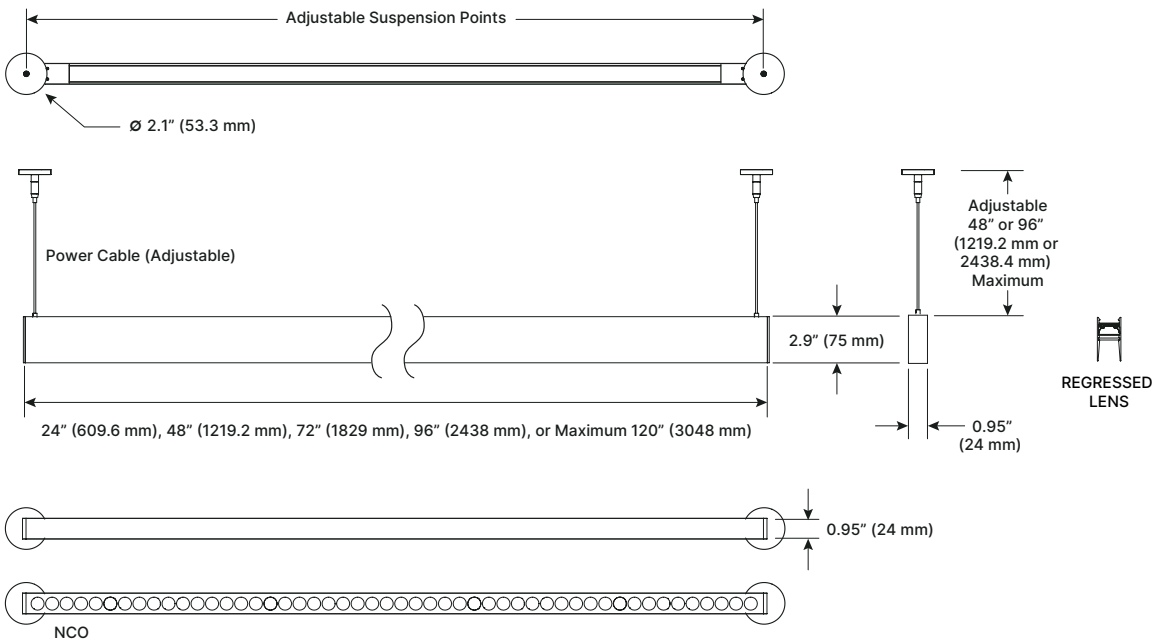
REMOTE DRIVER BOX

Dimensions



FIXTURE DESIGN

Dimensions



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

Length

Length Options 12", 24", 48", 72", 96", 120" 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 Options Flat

End Cap Material Machined or cast aluminum

Optic

Lens Options Regressed, Continuous Regressed, Nano Cavity Optics, and Nano Baffle (Requires Regressed Lens)

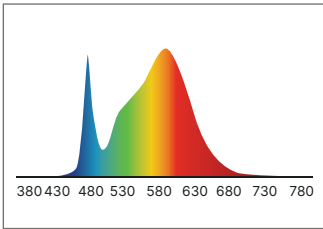
Lens Material Patented SmartOptics® made from Acrylic (PMMA)

Voltage

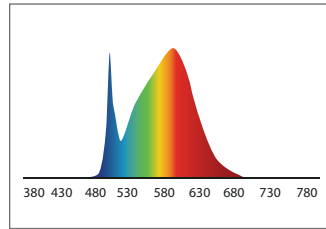
Fixture Voltage (AC) Factory Selected, 33V Constant Current, 24V Constant Voltage, and 48V Constant Voltage

LED SELECTION GUIDE

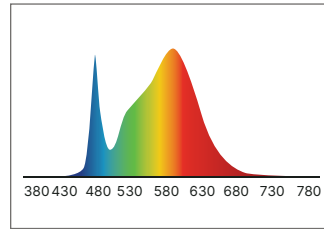
S80: Standard 80+ CRI



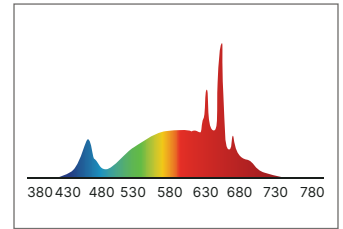
S90: Standard 90+ CRI



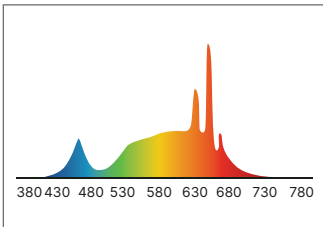
HE80: High-Efficiency 80+ CRI



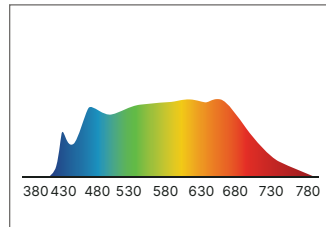
HE90: High-Efficiency 90+ CRI



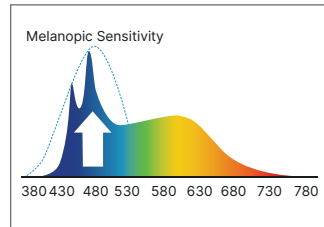
HD95: High-Definition 95+ CRI



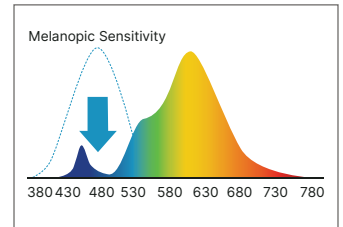
SUN: Full Spectrum "SunLike"



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

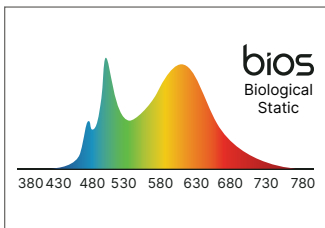
BIOS is offered in four Circadian LED Solutions with BIOS SkyBlue Technology — Biological Static, Biological Dynamic, Biological Tunable, and Biological Dim-to-Warm. BIOS SkyBlue™ Technology includes a blue peak at 490nm that provides an effective daytime circadian signal using standard architectural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

bios

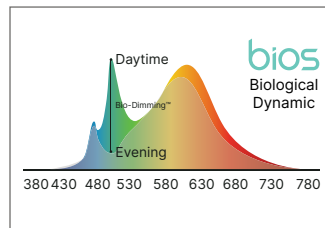
To learn more about BIOS Technology, please click or scan the QR Code.



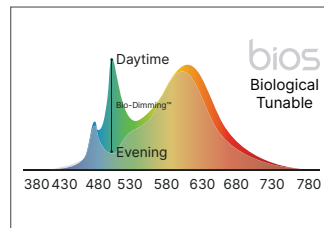
BIOS Static



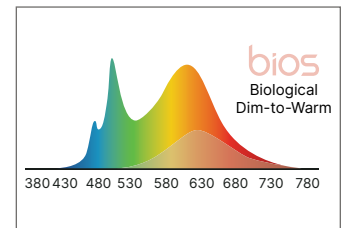
BIOS Dynamic



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

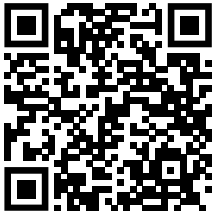
CODE	DESCRIPTION	BIO-DIMMING MODULE TECHNOLOGY GUIDE					
		Driver	Driver Voltage	CCT	Requires BIO-Dimming Module	Lighting Control	BIOS SkyBlue (490nm)
SBIOS	BIOS Static	DIM1	0-10V Dimming to 1% Dim-to-Dark	No CCT Change	No	Intensity Dimming Control Only	Always Present
DBIOS	BIOS Dynamic	BIODIM1	0-10V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

Input Voltage

Voltages 120/277V and 347V

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

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)

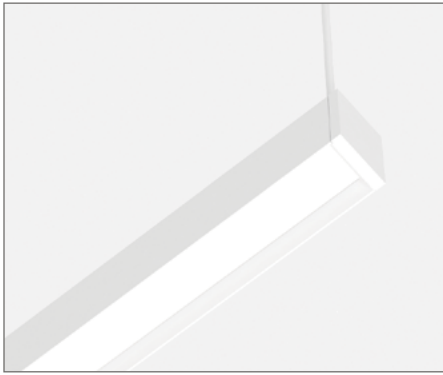
Lutron Hi-Lume 1% Dimming and 5-Series 5% Dimming

Cooper Compatible driver

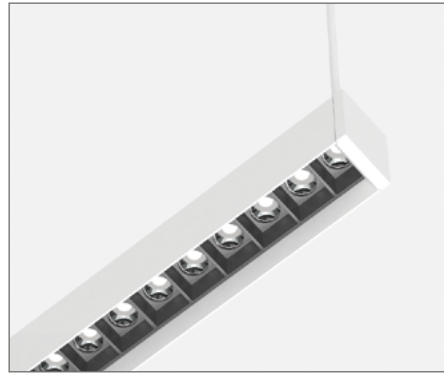
Casambi (wireless) Compatible driver

XBox

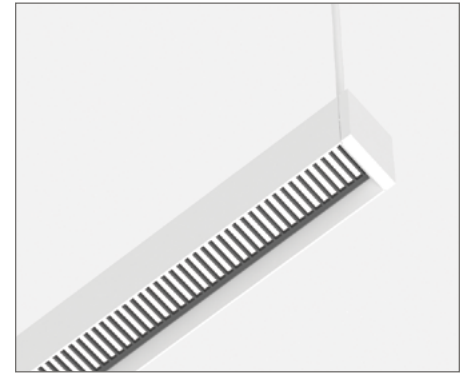
Remote Driver Boxes (Optional) To create a clean and organized power solution for multiple fixture installations see our Xbox Specification Guide. Reach out to a XICO Sales Representative to discuss your projects needs.



Regressed Lens



Nano Cavity Optics



Nano Baffle

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

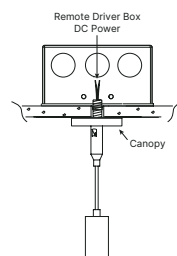
White and Black

Mounting Options

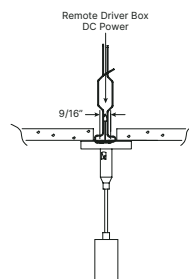
Typically suspended at a distance of between 24" and 72". Supplied hardware includes:

- Remote Drivers (optional XBox Drivers are sold separately)
- 48" or 96" standard adjustable cord
- Internal brackets to eliminate light leakage at joints

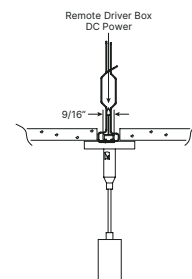
DJ - Drywall/J-Box Mount



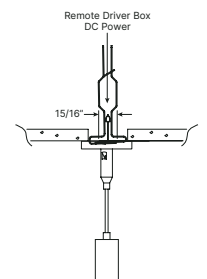
T1 - 9/16" Flat T-Bar Mount



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



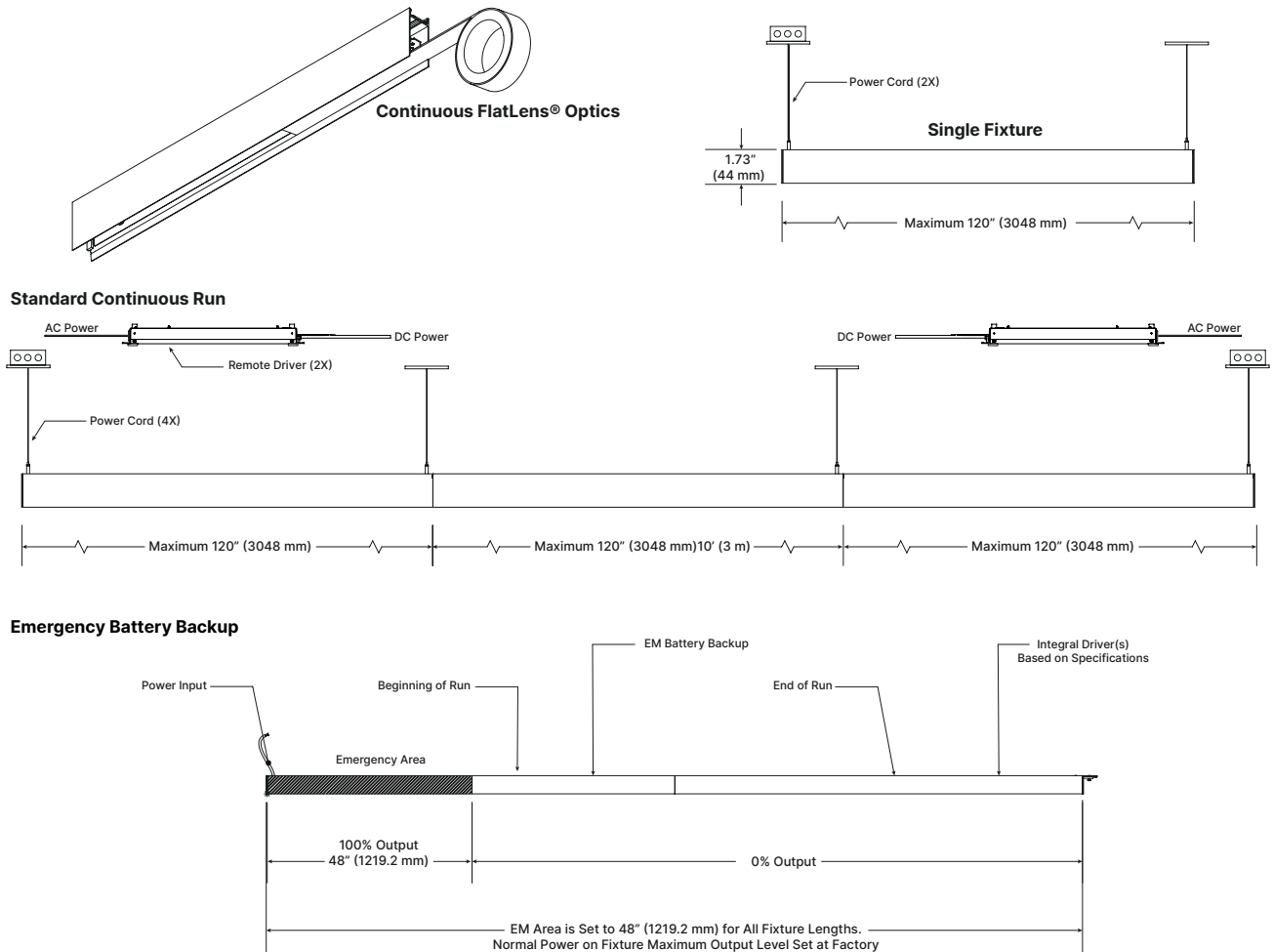
T3 - 15/16" Flat T-Bar Mount



Standard Lengths & Continuous Runs

Maximum length of one fixture is 120". 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.



Declare.

Nano Series
Xtreme Lighting

Pistol Assembly: Boston, MA, USA
Life Expectancy: 10+ Years!
End of Life Options: Recyclable (99%)

Ingredients:

- Aluminum, Glass, oxide, chemicals, Polymethyl methacrylate, Resin, 4,4'-Thiobis(6-tert-butylphenol), polymer with 2,2'-(methylenebis[4-methyl-6-tert-butyl-4-isopropylphenylene])bis(methacrylonitrile) 1,4-dimethyl-2,5-dithienyl ether with 1,4-dimethyl-1,4-glyoxal-bis(2-phenylethanone)
- 2-Ethanolbutyl, 2-Ethoxyethyl, 2-Ethoxyethylacetate, 2-Ethoxyethylmethacrylate, Butene, styrene, Hexagelium, Silanes, Phosphorothioiccarbamates acid, dihydroxydiphenylmethane, Diisocyanate, dimethylol, metallic Gold, Polypropylene, Titanium Zinc Nickel (Plastic)

Living Building Challenge Criteria Compliant

V-10 Red List ■ LBC Red List Free ■ LBC Red List Approved ■ Disallowed	● Disallowed: 100% at 100ppm VOC Content, Not Applicable
--	--

V-10 Impermissible Performance: Not Applicable
V-10 Impermissible Sourcing: Not Applicable

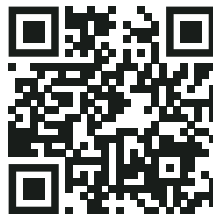
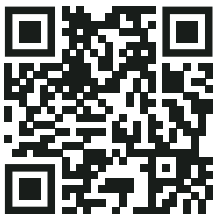
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 EXP. 01 JAN 2021
 Issue Date: 06/2022

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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.



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.

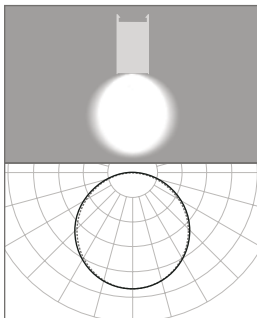


OPTIC	BEAM PATTERN										
	DLAM	DBW90	DBW60	DDA70	DA5025	DA4005	DM55	DN40	DNCO45	DNCO35	DNCO25
Regressed Lens	●	●	●	●	●	●	●	●			
Nano Baffle	●	●	●	●	●	●	●	●			
Nano Cavity Optics (NCO)									●	●	●

DIRECT PHOTOMETRICS

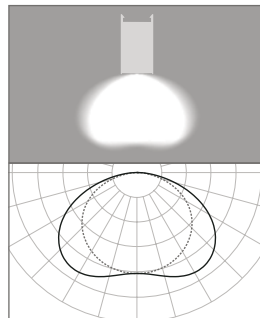
Static White Light

DLAM: Lambertian



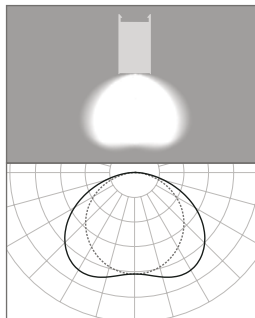
Length 48"
LED HE80
CRI/CCT 80+/3500K
Lumens 3,000
lm/ft 765
Watts 27
W/ft 7
LPW 111

DBW90: Batwing 90°



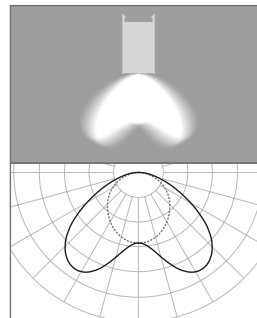
Length 48"
LED HE80
CRI/CCT 80+/3500K
Lumens 3,000
lm/ft 750
Watts 24
W/ft 6
LPW 123

DBW60: Batwing 60°



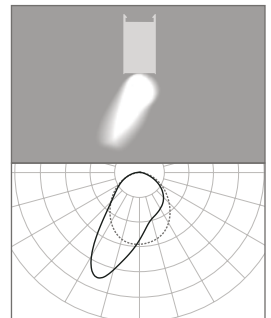
Length 48"
LED HE80
CRI/CCT 80+/3500K
Lumens 3,000
lm/ft 744
Watts 24
W/ft 6
LPW 123

DDA70: Double Asymmetric 70°



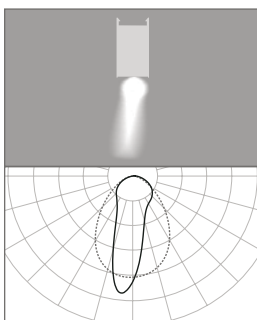
Length 48"
LED HE80
CRI/CCT 80+/3500K
Lumens 3,000
lm/ft 760
Watts 25
W/ft 6
LPW 123

DA5025: Asymmetric 50° at 25° Tilt



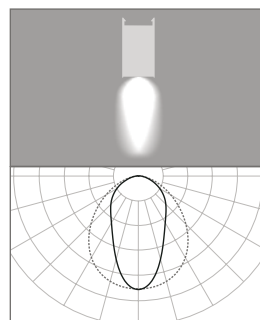
Length 48"
LED HE80
CRI/CCT 80+/3500K
Lumens 3,000
lm/ft 749
Watts 23
W/ft 6
LPW 130

DA4005: Asymmetric 40° at 5° Tilt



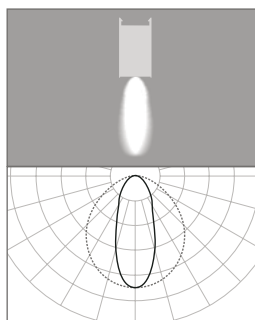
Length 48"
LED HE80
CRI/CCT 80+/3500K
Lumens 3,000
lm/ft 738
Watts 23
W/ft 6
LPW 128

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°

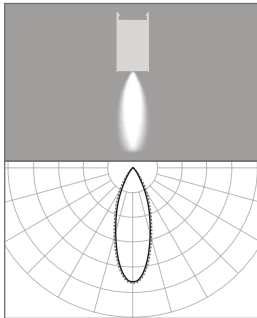


Length 48"
LED HE80
CRI/CCT 80+/3500K
Lumens 3,000
lm/ft 746
Watts 26
W/ft 6
LPW 116

DIRECT PHOTOMETRICS (cont.)

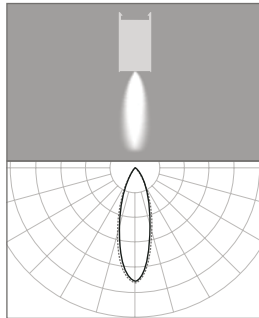
Static White Light

DNCO45: Nano Cavity Optic 45°



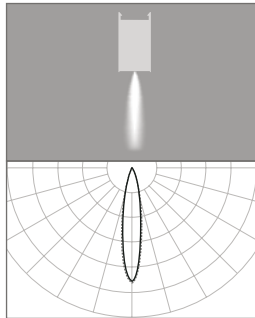
Length 48"
LED HE80
CRI/CCT 80+/3500K
Lumens 3,000
lm/ft 750
Watts 37
W/ft 9
LPW 82

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°

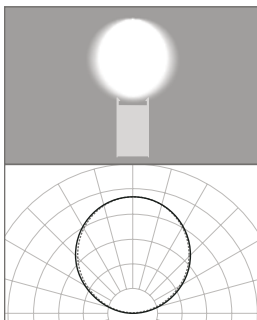


Length 48"
LED HE80
CRI/CCT 80+/3500K
Lumens 3,000
lm/ft 750
Watts 37
W/ft 9
LPW 82

INDIRECT PHOTOMETRICS

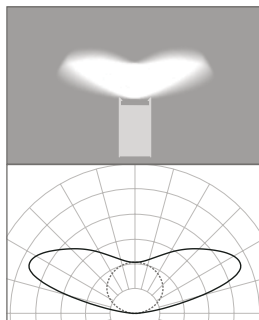
Static White Light

ILAM: Lambertian



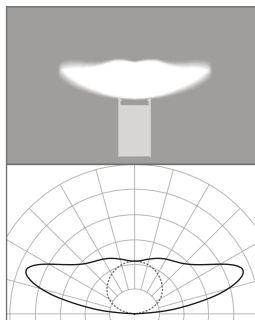
Length 48"
LED HE80
CRI/CCT 80+/3500K
Lumens 4,000
lm/ft 1,000
Watts 28
W/ft 7
LPW 150

IBW120: Batwing 120°



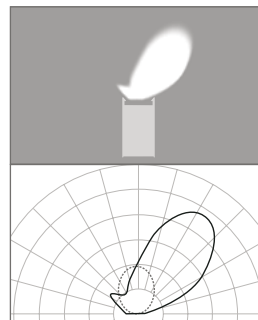
Length 48"
LED HE80
CRI/CCT 80+/3500K
Lumens 4,000
lm/ft 1,002
Watts 25
W/ft 6.3
LPW 159

IFT150: FlatTop 150°



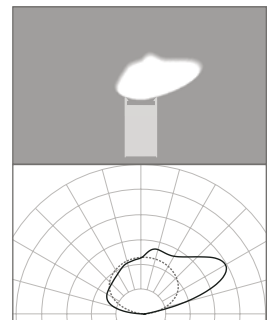
Length 48"
LED HE80
CRI/CCT 80+/3500K
Lumens 4,000
lm/ft 1,004
Watts 26
W/ft 6.5
LPW 155

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



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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	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
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The Patent Corporation Treaty

World Intellectual Property Organization	WO2015200268
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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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