

NANOSquare65 Surface



Direct | Standard Lengths

Project Name _____

Fixture Type _____



DESCRIPTION

0.65" Compact Linear LED Surface Mount

NANOSquare65 Surface is a 0.65" square surface-mounted linear LED luminaire designed to be mounted on ceilings and between panels in popular wood grille systems. Delivering SmartBeam® performance in an ultra-compact form, it utilizes a remote driver to minimize visual clutter, while achieving up to 1,000 lm/ft and 135 lm/W performance. The system supports a wide variety of color temperatures, with a choice of optics and 8 direct beam distributions. When paired with our nano cavity optics, NANOSquare65 delivers low-glare performance (<19 UGR).

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 6500K 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

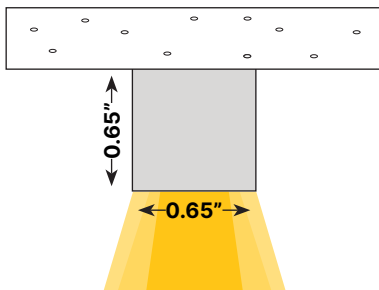
UL Listed, Dry and Damp Locations

5-Year Warranty

Standard 5-year warranty, 50,000 hours

LIGHTING CONFIGURATIONS

Direct



Designed & Built in
BOSTON

FIXTURE ORDERING

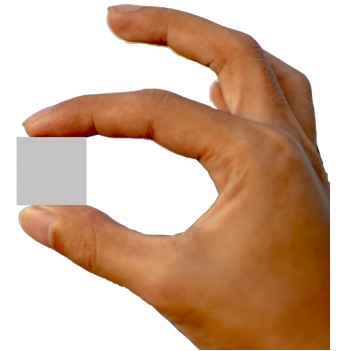
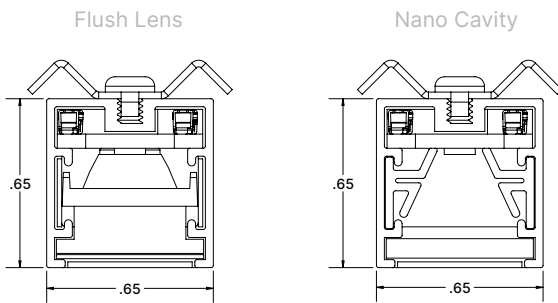
Project Name _____ Fixture Type _____

1) FIXTURE DESIGN			
PRODUCT	FIXTURE LENGTH	FINISH	END CAP STYLE
NSQ65-S 0.65" Compact Linear LED Surface Mount	2 - 2 ft 4 - 4 ft 6 - 6 ft 8 - 8 ft X_ - Specify Ft', In"	Powder Coated PMW - Matte White PMB - Matte Black PMG - Matte Gray PRAL_ - Specify RAL #	E1 - Flat End Cap
	Custom fixtures are available in 3" increments beyond standard lengths.	Anodized ACL - Clear Anodized ACU_ - Custom Anodized #	
2) LED LIGHT ENGINE			
CRI	CCT	DIRECT BEAM PATTERN	DIRECT OUTPUT
80 - Std. 80 CRI 90 - Std. 90 CRI 95 - High-Def. 95 CRI	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K XD - Dim-to-Warm XT - Tunable X_ - Specify CCT Specify Dim-to-Warm and Tunable between 2700K-6500K.	DLAM - Lambertian DBW60 - Batwing 60° DDA70 - Double Asym 70° DA5025 - Asym 50° at 25° Tilt DA4005 - Asym 40° at 5° Tilt DM55 - Medium 55° DN40 - Narrow 40° X_ - Specify Beam ¹	35 - 350 lm/ft 50 - 500 lm/ft 75 - 750 lm/ft 100 - 1,000 lm/ft X_ - Specify lm/ft
	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K	DS40 - Nano Cavity Optics Spot 40°	
3) FIXTURE POWER & CONTROLS			
LINE VOLTAGE (DC)	REMOTE DRIVER (POWER) ²	Footnotes: ¹ Contact factory about custom beam options. ² Standard driver box is included	
UNV - 120/277V 347 - 347V	FDND - Factory Non-Dimming FD00 - Factory 0-10V 0.1% Dim 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 X_ - Specify Driver		
3) FIXTURE POWER & CONTROLS			
MOUNTING TYPE	POWER CORD	MOUNTING KIT	
WPC - Wood Panel Clip SMC - Surface Mount Clip SMM - Surface Mount Magnet TC1 - 9/16" Flat T-Bar Mount TC2 - 9/16" Bolt Slot T-Bar Mount TC3 - 15/16" Flat T-Bar Mount TC1, TC2 and TC3 clips directly to grid t-bar.	P48W - 48" White Cord (Ø 1/8") P48B - 48" Black Cord (Ø 1/8") P96W - 96" White Cord (Ø 1/8") P96B - 96" Black Cord (Ø 1/8")	SSMB - Stainless Steel Surface Mounting Bracket	

OPTIONAL	
EMERGENCY BACKUP	WIRELESS MODULE
<p>EMC - Emergency Circuit EMB - Emergency Battery (10 W — Remote) X_ - Specify Backup</p> <p>Specify requirements at time of order.</p>	<p>WCN - Wireless Communication Node (Connected to LED Driver In-Fixture or In-Driver Box) PIR - Wireless Communication Node + PIR Sensor (Standard Lens for Low Bay < 10') MW - Wireless Communication Node + MW Sensor (Standard for Low Bay < 10') X_ - Other – Specify Embedded Component or Specific Non-Standard Sensor Detection Range</p>

DIMENSIONS & INSTALLATION

Dimensions



Standard Fixtures



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.

Surface Mount

Installs onto a surface via clip or magnet. Available with a range of accessories, mounts and inserts that provide easy customization of visual appearance and performance enhancements.

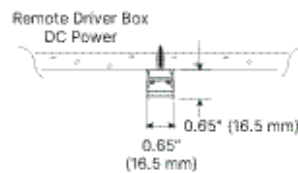
Mounting Kit

Surface Mounting Bracket

Stainless Steel

Mounting Options

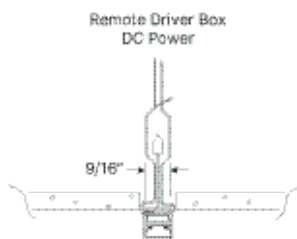
SC1 - Surface Mount Clip



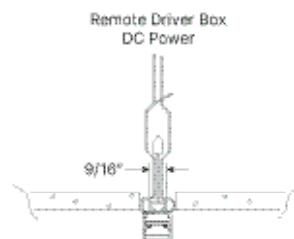
SM1 - Surface Mount Magnet



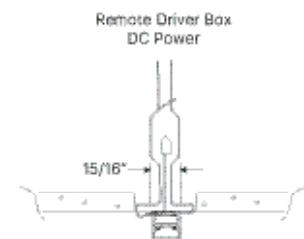
TC1 - 9/16" Flat T-Bar Mount Clip



TC2 - 9/16" Bolt Slot T-Bar Mount Clip



TC3 - 15/16" Flat T-Bar Mount Clip

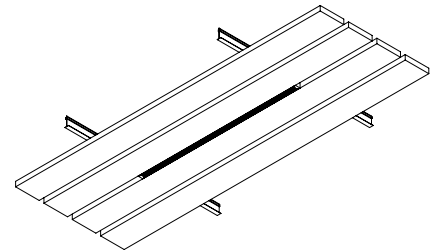
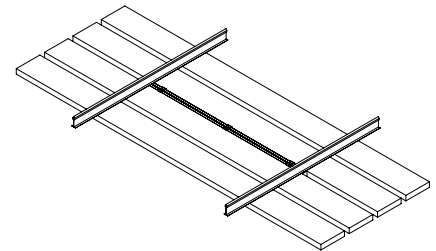
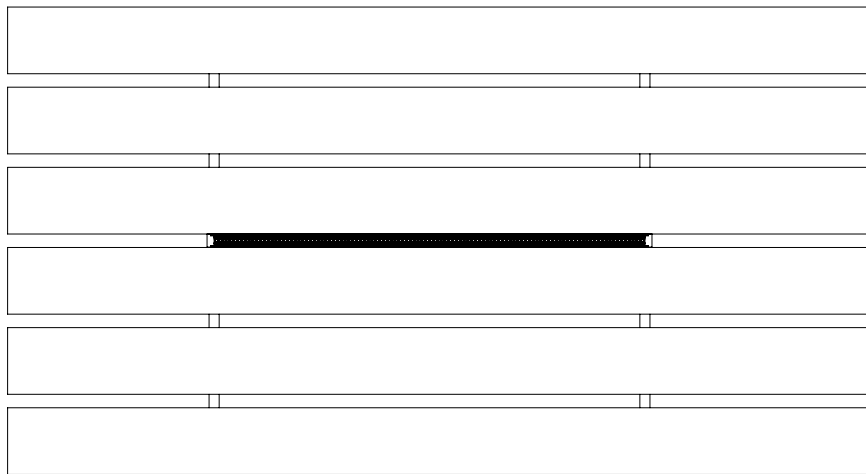
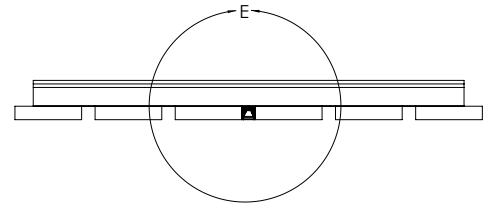
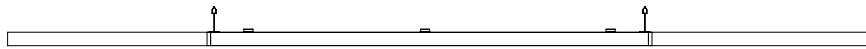
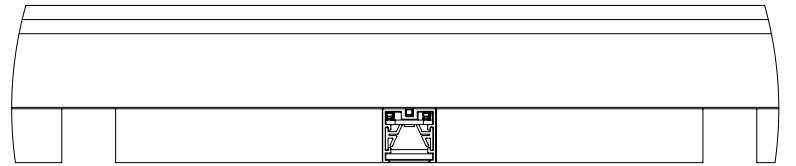


DIMENSIONS & INSTALLATION

Ceiling Grid Mounting

NANOSquare65 Surface can be easily mounted between grilles in popular wood panel ceiling systems from manufacturers such as Armstrong, USG, Rulon Industries and Wood9 by specifying the WPC (wood panel clip) option. Having dimensions of only 0.65" x 0.65" the NANOSquare65 Surface is designed to match the thickness of a wood grille panel and when installed will sit flush with the bottom surface of the grille.

DETAIL E
SCALE 1 : 2

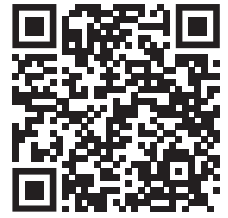


SMARTBEAM® TECHNOLOGY

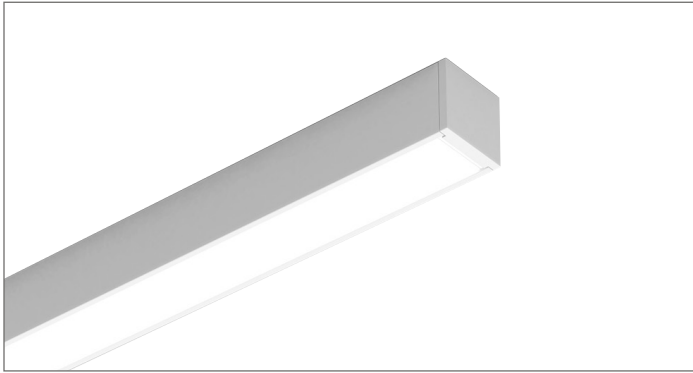
The Ultimate Control of Lighting Distributions

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.

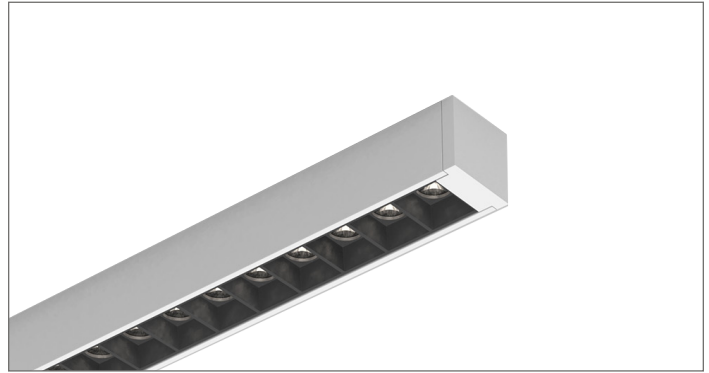
To learn more about our SmartBeam Technology, please click or scan the QR Code.



Direct Optics Choices



FL - Flush Lens



NCO - Nano Cavity Optics

DIRECT OPTICS	BEAM PATTERN							
	DLAM	DBW60	DDA70	DA5025	DA4005	DM55	DN40	DS40
Flush Lens	■	■	■	■	■	■	■	
NCO								■

LPW Efficacy Conversion Chart

CODE	CCT SELECTED							
	2200K	2700K	3000K	3500K	4000K	5000K	5700K	6500K
80	-	0.91	0.96	1.00	1.04	1.11	1.11	1.11
90	-	0.91	0.96	1.00	1.04	1.11	1.11	1.11
95	-	0.91	0.96	1.00	1.04	1.11	1.03	1.04

LPW Performance

	DIRECT							
	DLAM	DBW60	DDA70	DA5025	DA4005	DM55	DN40	DS40
LM/W	111	123	123	130	128	129	116	82

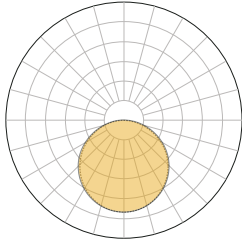
$$LM/W = \frac{\left(\begin{matrix} \text{DIRECT} \\ \text{LM/FT} \end{matrix} + \begin{matrix} \text{INDIRECT} \\ \text{LM/FT} \end{matrix} \right)}{\left(\begin{matrix} \text{DIRECT} \\ \text{W/FT} \end{matrix} + \begin{matrix} \text{INDIRECT} \\ \text{W/FT} \end{matrix} \right)}$$

DIRECT PHOTOMETRICS

48" Length, 80+/3500K CRI/CCT, 3,000 Lumens

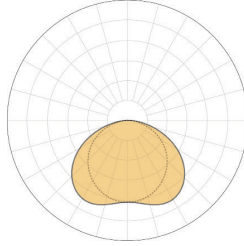
Static White Light

DLAM: Lambertian



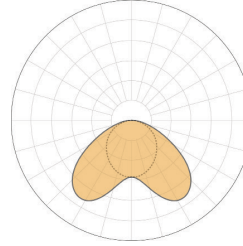
LM/FT	W/FT	LM/W
350	3.2	109.4
500	4.6	108.7
750	6.9	108.7
1000	9.2	108.7

DBW60: Batwing 60°



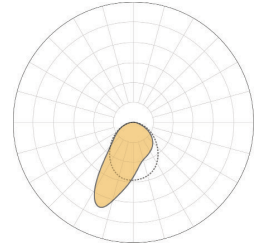
LM/FT	W/FT	LM/W
350	2.8	123
500	4	125
750	6	125
1000	8	125

DDA70: Double Asymmetric 70°



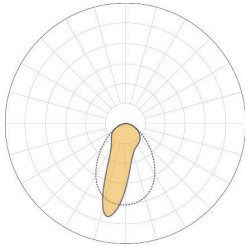
LM/FT	W/FT	LM/W
350	2.8	125
500	4.1	122
750	6.1	123
1000	8.1	123.5

DA5025: Asymmetric 50° at 25° Tilt



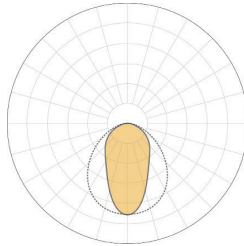
LM/FT	W/FT	LM/W
350	2.8	123
500	4	125
750	6	125
1000	8	125

DA4005: Asymmetric 40° at 5° Tilt



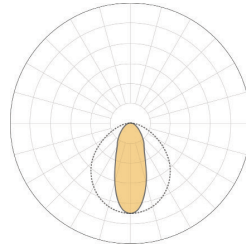
LM/FT	W/FT	LM/W
350	2.8	125
500	3.9	128.2
750	5.9	127.1
1000	7.9	126.6

DM55: Medium 55°



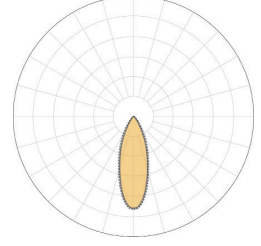
LM/FT	W/FT	LM/W
350	2.8	125
500	3.9	128.2
750	5.9	127.1
1000	7.9	126.6

DN40: Narrow 40°





LM/FT	W/FT	LM/W
350	2.8	123
500	4	125
750	6	125
1000	8	125

DS40: Nano Cavity Optic Spot 40°



LM/FT	W/FT	LM/W
350	4.2	83.3
500	6	83.3
750	9	83.3
1000	12	83.3

COMPATIBLE OPTIC	
FLUSH LENS	NCO
	

POWER & CONTROLS

Voltage

Fixture Voltage (AC)

120–277 VAC
347 VAC, 50/60 Hz

Power Location

Remote

LED Driver

Factory Selected, 36–39V Constant Current

Drivers

FDND - Factory Non-Dimming
FD00 - Factory 0-10V 0.1% Dim
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
X_ - Specify Driver

Emergency Backup (Optional)

EMC - Emergency Circuit
EMB - Emergency Battery (10 W — Remote)
X_ - Specify Backup

Power

10 W

Illumination Time

90 minutes

IP Rating

Suitable for Dry and Damp Locations, indoor use only

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.

Compatible Control Options



TECHNICAL SPECIFICATIONS

Finishes & Design Options

Housing Colors (Matte Finish)

White (RAL9003)
 Black (RAL9005)
 Gray (RAL7001)
 Custom RAL



Housing Material

6063-T5 extruded, recycled aluminum

Mounting Brackets

Sheet Metal

Flat End Cap Material

Machined or cast aluminum

Lens Options and Material

Flush Lens lens with Patented SmartOptics® made from Acrylic (PMMA). Nano Cavity Optics options with Polycarbonate.

Standards & Certifications

Sustainability

Low carbon, environmentally conscious packaging and shipping methods

Compliance

BABAA & TAA compliant in-house manufacturing in Boston, MA with North American supply chain



Certifications



Declare Listed and Red List Free

Low carbon, environmentally conscious packaging and shipping methods

Recyclable

SmartOptics and all powder coated and anodized parts are fully recyclable at end of life

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

Declare.

Nano Series
XICO Lighting

Final Assembly: Woburn, MA, USA
 Life Expectancy: 10+ Years
 End of Life Option: Recyclable (99%)

Ingredients:
 Aluminum, Glass, Oxide, Chemicals, Polymethyl methacrylate, Phenol, 4,4'-O-methylthiobis(2,6-dimethylphenol), 2,2'-[1,1-bis(4-phenylethoxy)ethane]bis(oxazoline), 1,3-benzenedicarboxylic acid, 1,3-dimethyl imine polymer with 1,4-dimethyl 1,4-benzenedicarboxylate and 1,2-ethanediol, Polyethylene Glycol, Polyethylene Terephthalate, Barium Sulfate, Hexamers, Siloxane, Phosphonotrihydroxyacetic acid, diphenyl color iron, Siloxane and Siloxane, di-Mn, Chromium, metallic, Gold, Magnesium, Titanium, Zinc, Nickel, Phthalic

Declare Listed

At Xico Lighting, we are committed to transparency and sustainability. That's why all our products are Declare listed, providing clear insights into their environmental footprint and safety. Look for these internationally recognized labels on Xico products, packaging, or at xicoled.com/declare.

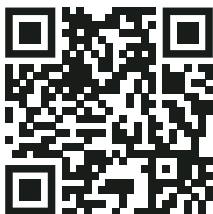


Red List Free

Xico Lighting is dedicated to creating safe, sustainable solutions. All our products are Red List Free, meeting the highest industry standards for healthy and environmentally responsible materials as defined by the International Living Future Institute (ILFI). Learn more at xicoled.com/declare.

Quick Links

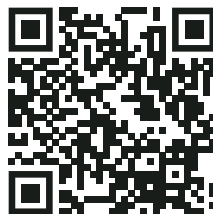
5-YR Warranty



Business Terms



Patents & Trademarks



SmartBeam



Revit Files

