

# NANORail95

Direct | Standard Lengths



Project Name \_\_\_\_\_

Fixture Type \_\_\_\_\_



**Remote Driver**

## DESCRIPTION

### 0.95" x 0.375" Low-Profile Ultra-Narrow Linear LED

The NANORail is the industry's smallest linear, high performance and slim indirect luminaire for cove, undercabinet and hidden accent lighting. NANORail is based on patented Cosine optics and Flatlens technology and provides a choice of lambertian, symmetric and asymmetric light distributions with an overall optical efficiency of over 90%.

## FEATURES & BENEFITS

### Ultra-Narrow (0.95") with Exceptional Performance

0.95" x 0.375" form delivering up to 1,000 lm/ft, at >150 lm/W

### 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, 2700K to 65000K 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

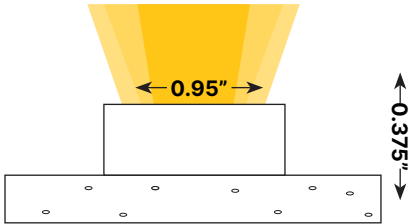
UL Listed, Dry and Damp Locations

### 5-Year Warranty

Standard 5-year warranty, 50,000 hours

## LIGHTING CONFIGURATIONS

Direct



## FIXTURE ORDERING

Project Name \_\_\_\_\_

Fixture Type \_\_\_\_\_

### 1) FIXTURE DESIGN

| PRODUCT  | FIXTURE LENGTH   | FINISH  | DAISY CHAIN  |
|--|--|---|--|
| <b>NRA95</b><br>0.95" Low-Profile<br>Linear LED Rail | <b>1</b> - 1 ft<br><b>2</b> - 2 ft<br><b>3</b> - 3 ft<br><b>4</b> - 4 ft<br><b>X_</b> - Specify Ft', In" | <b>Powder Coated</b><br><b>PMW</b> - Matte White<br><b>PMB</b> - Matte Black<br><b>PMG</b> - Matte Gray<br><b>PRAL_</b> - Specify RAL # | <b>DN</b> - No: Daisy Chain (Single Input)<br><b>DY</b> - Yes: Daisy Chain |
|  | Custom fixtures are available in 3" increments beyond standard lengths. Maximum length 10'.              | <b>Anodized</b><br><b>ACL</b> - Clear Anodized<br><b>ACU_</b> - Custom Anodized #   |  |

### 2) LED LIGHT ENGINE

| CRI   | CCT   | OPTIC (DIRECT ONLY)              | DIRECT BEAM PATTERN  | DIRECT OUTPUT  |
|---|---|----------------------------------|--|--|
| <b>80</b> - Std. 80 CRI<br><b>90</b> - Std. 90 CRI<br><b>95</b> - High-Def. 95 CRI<br><b>SUN</b> - Full SunLike | <b>27</b> - 2700K<br><b>30</b> - 3000K<br><b>35</b> - 3500K<br><b>40</b> - 4000K<br><b>XD</b> - Dim-to-Warm <sup>1</sup><br><b>XT</b> - Tunable <sup>1</sup><br><b>X_</b> - Specify CCT<br><br>Specify Dim-to-Warm and Tunable between 2700K-6500K. | <b>FL</b>                        | <b>DLAM</b> - Lambertian<br><b>DBW60</b> - Batwing 60°<br><b>DM50</b> - Medium 50°<br><b>X_</b> - Specify Beam <sup>1</sup>  | <b>35</b> - 350 lm/ft<br><b>50</b> - 500 lm/ft<br><b>75</b> - 750 lm/ft<br><b>100</b> - 1,000 lm/ft<br><b>X_</b> - Specify lm/ft |
|   |   | <b>Flat Lens Optics</b>          |  |  |
|   |   | <b>CO</b>                        | <b>DLAM</b> - Lambertian<br><b>DBW120</b> - Batwing 120°<br><b>DFT150</b> - Flattop 150°<br><b>DA4560</b> - Asym 45° at 60° Tilt<br><b>DA6040</b> - Asym 60° at 40° Tilt |  |
|   |   | <b>Cosine<sup>®</sup> Optics</b> |  |  |
|   |   | <b>DO</b>                        | <b>DLAM</b> - Lambertian   |  |
|   |   | <b>Dome Lens Optics</b>          |  |  |

### 3) FIXTURE POWER & CONTROLS

| LINE VOLTAGE (DC)                          | REMOTE DRIVER (POWER) <sup>2</sup>   |   |
|--|--|---|
| <b>UNV</b> - 120/277V<br><b>347</b> - 347V | <b>FDND</b> - Factory Non-Dimming<br><b>FD00</b> - Factory 0-10V 0.1% Dim<br><b>FD01</b> - Factory 0-10V 1% Dim<br><b>FD10</b> - Factory 0-10V 10% Dim<br><b>FDDA</b> - Factory DALI 0.1% Dim<br><b>FDDX</b> - Factory DMX Dim<br><b>FDTR</b> - Factory TRIAC Dim<br><b>LD01</b> - Lutron Hi-Lume 1% Dim<br><b>X_</b> - Specify Driver | Footnotes: <sup>1</sup> Contact factory about custom beam options. <sup>2</sup> Standard driver box is included |

**4) FIXTURE MOUNTING & CONNECTIONS**

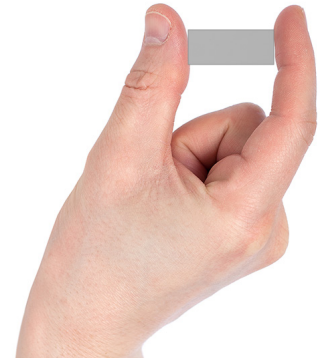
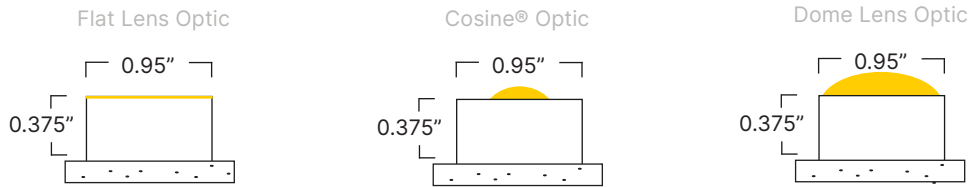
| MOUNTING TYPE  |
|--|
| <p><b>NMH</b> - No Mounting Hardware<br/> <b>SMC</b> - Surface Mount Clip<br/> <b>SMM</b> - Surface Mount Magnet</p> |

**OPTIONAL**

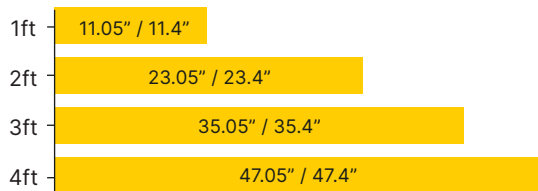
| EMERGENCY BACKUP  | WIRELESS MODULE  |
|---|--|
| <p><b>EMC</b> - Emergency Circuit<br/> <b>EMB</b> - Emergency Battery (10 W — Remote)<br/> <b>X_</b> - Specify Backup</p> <p>Specify requirements at time of order.</p> | <p><b>WCN</b> - Wireless Communication Node (Connected to LED Driver In-Fixture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

## DIMENSIONS & INSTALLATION

### Dimensions



### Standard Fixtures



Lens Length / Fixture Length

### Mounting Type

#### 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.

## SMARTBEAM® TECHNOLOGY

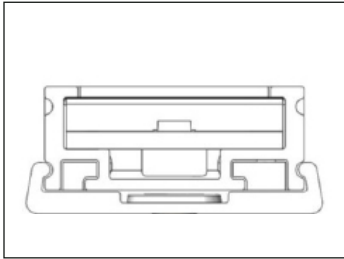
### The Ultimate Control of Lighting Distributions

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.

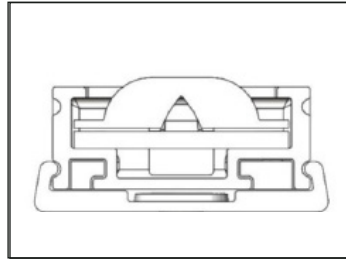
To learn more about our SmartBeam Technology, please click or scan the QR Code.



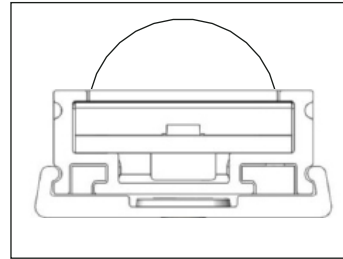
### Direct Optics Choices



FL - Flat Lens



CO - Cosine® Optic



DL - Dome Lens

| DIRECT OPTICS | BEAM PATTERN |       |      |        |        |        |        |
|---------------|--------------|-------|------|--------|--------|--------|--------|
|               | DLAM         | DBW60 | DM50 | DBW120 | DFT150 | DA6040 | DA4560 |
| Flat Lens     | ■            | ■     | ■    |        |        |        |        |
| Cosine® Optic | ■            |       |      | ■      | ■      | ■      | ■      |
| Dome Lens     | ■            |       |      |        |        |        |        |

### 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  |
| SUN  | –            | 0.90  | 0.92  | 1.00  | 1.01  | 1.07  | 1.04  | 1.05  |

### LPW Performance

|      | DIRECT |      |     |       |       |       |       |
|------|--------|------|-----|-------|-------|-------|-------|
|      | LAM    | BW60 | M50 | BW120 | FT150 | A6040 | A4560 |
| LM/W | 150    | 150  | 150 | 150   | 150   | 150   | 150   |

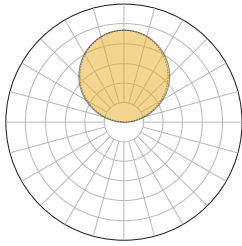
$$LM/W = \frac{\left( \begin{matrix} \text{DIRECT} \\ \text{LM/FT} \end{matrix} + \begin{matrix} \text{INDIRECT} \\ \text{LM/FT} \end{matrix} \right)}{\left( \begin{matrix} \text{DIRECT} \\ \text{W/FT} \end{matrix} + \begin{matrix} \text{INDIRECT} \\ \text{W/FT} \end{matrix} \right)}$$

## PHOTOMETRICS

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

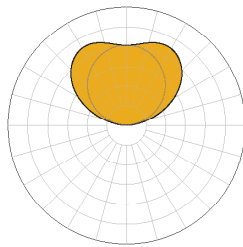
Static White Light

**DLAM:** Lambertian



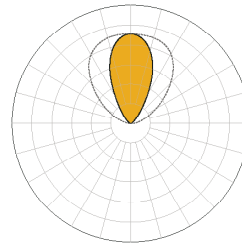
| LM/FT | W/FT | LM/W  |
|-------|------|-------|
| 350   | 2.4  | 145.8 |
| 500   | 3.4  | 150   |
| 750   | 5.1  | 147.1 |
| 1000  | 6.8  | 147.1 |

**DBW60:** Batwing 60°



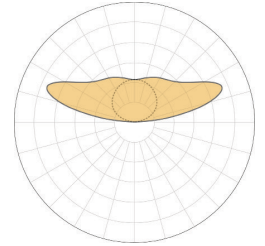
| LM/FT | W/FT | LM/W  |
|-------|------|-------|
| 350   | 2.4  | 145.8 |
| 500   | 3.4  | 150   |
| 750   | 5.1  | 147.1 |
| 1000  | 6.8  | 147.1 |

**DM50:** Medium 50°



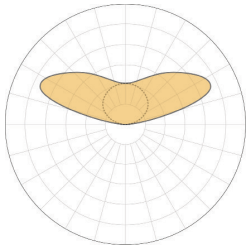
| LM/FT | W/FT | LM/W  |
|-------|------|-------|
| 350   | 2.4  | 145.8 |
| 500   | 3.4  | 150   |
| 750   | 5.1  | 147.1 |
| 1000  | 6.8  | 147.1 |

**DFT150:** Flattop 150°



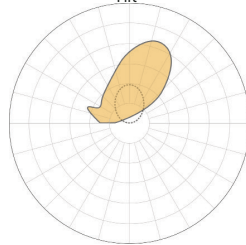
| LM/FT | W/FT | LM/W  |
|-------|------|-------|
| 350   | 2.4  | 145.8 |
| 500   | 3.4  | 150   |
| 750   | 5.1  | 147.1 |
| 1000  | 6.8  | 147.1 |

**DBW120**



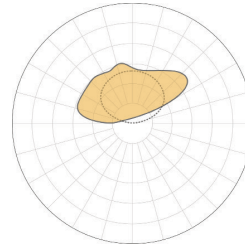
| LM/FT | W/FT | LM/W  |
|-------|------|-------|
| 350   | 2.4  | 145.8 |
| 500   | 3.4  | 150   |
| 750   | 5.1  | 147.1 |
| 1000  | 6.8  | 147.1 |

**DA6040:** Asymmetric 60° at 40° Tilt°



| LM/FT | W/FT | LM/W  |
|-------|------|-------|
| 350   | 2.4  | 145.8 |
| 500   | 3.4  | 150   |
| 750   | 5.1  | 147.1 |
| 1000  | 6.8  | 147.1 |

**DA4560:** Asymmetric 45° at 60° Tilt°



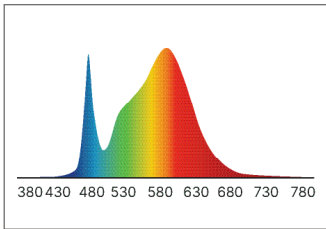
| LM/FT | W/FT | LM/W  |
|-------|------|-------|
| 350   | 2.4  | 145.8 |
| 500   | 3.4  | 150   |
| 750   | 5.1  | 147.1 |
| 1000  | 6.8  | 147.1 |

**COMPATIBLE OPTIC**

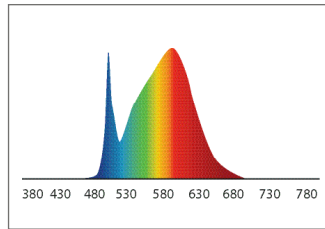
| FLAT LENS | COSINE® OPTIC | DOME LENS |
|-----------|---------------|-----------|
|           |               |           |

## LED OPTIONS

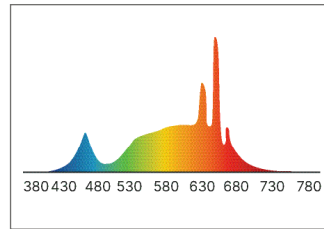
80: Standard 80+ CRI



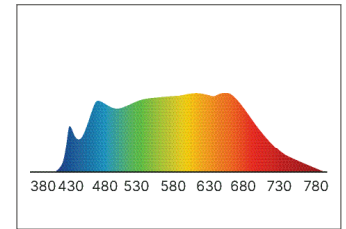
90: Standard 90+ CRI



95: High-Definition 95+CRI



SUN: Full Spectrum "SunLike"



| CODE | DESCRIPTION            | TYPICAL LED DATA |      |        |         |         |      |           |     |
|------|------------------------|------------------|------|--------|---------|---------|------|-----------|-----|
|      |                        | CCT              | CRI  | CRI R9 | TM30 Rf | TM30 Rg | CQS  | M/P Ratio | LPW |
| 80   | Standard 80 CRI        | 3500K            | 82.5 | 7.8    | 84      | 96.7    | 82.5 | 0.51      | 190 |
| 90   | Standard 90 CRI        | 3500K            | 91   | 54.3   | 89.3    | 98.9    | 89.2 | 0.55      | 175 |
| 95   | High Definition 95 CRI | 3500K            | 97.1 | 95     | -       | -       | -    | 0.70      | 163 |
| SUN  | Full Spectrum SunLike® | 3500K            | 95   | 85     | -       | -       | -    | -         | 130 |

## 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



