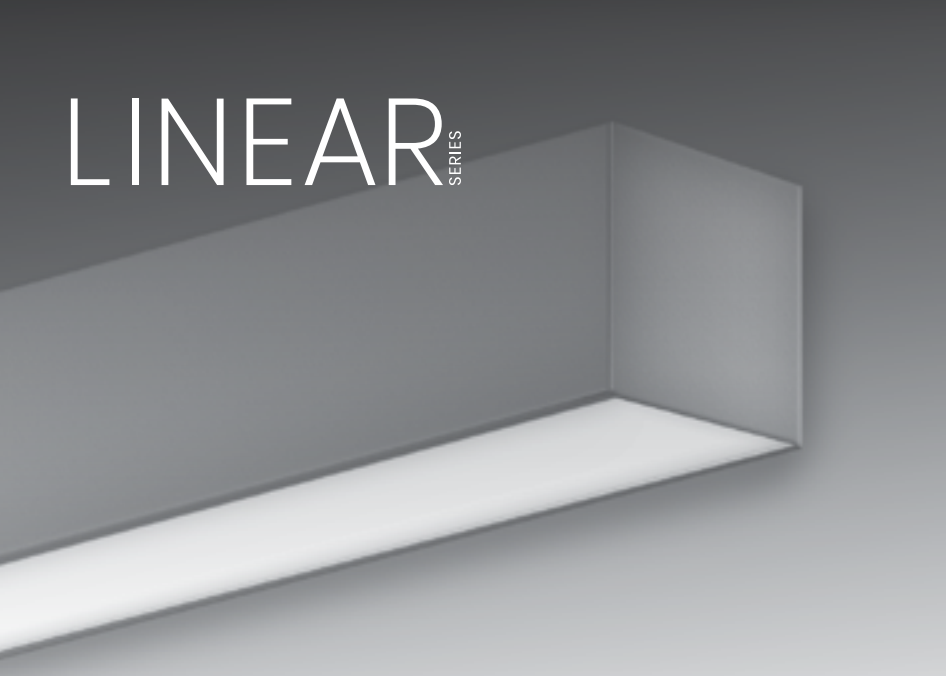


# LINEAR SERIES

Lumato
Light Without Boundaries

DATE

PROJECT

COMMENTS

CERTIFICATIONS

c UL us LISTED

Manufactured in the USA

BAA Compliant

BABA Compliant

10-Year Warranty

Standard 90+ CRI

## 3W WALL
DIRECT

AN EXTENSION OF OUR **3-INCH LINEAR FAMILY** SERIES

FEATURES

### HOUSING

1. **ARCHITECTURAL DETAILS**
   Concealed connection point between the wall and fixture eliminates the visibility of hardware.
2. **SURE-FIT ALIGNMENT**
   4-Point alignment system adjoining each luminaire section to ensure straighter rows while minimizing the appearance of seams.

### OPTICAL SYSTEM

3. **EVENLY ILLUMINATED ARCHITECTURAL LENS**
   Architectural grade diffuser designed to minimize glare, provide uniform light distribution, and optimal aesthetic value without sacrificing high efficiency light output. Optional Wall Wash (WW) achieves superior wall uniformity while minimizing glare.
4. **VERSATILE LIGHT ENGINE**
   Multiple lumen intensities provide the correct level of illumination within each space.

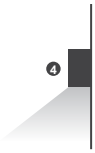
### ELECTRICAL

**OPTIONAL INTEGRAL EMERGENCY BATTERY PACK**
Engineered to exceed UL minimum safety standards and is CEC Listed.

**0-10 VOLT DIMMING STANDARD**
120/277VAC 0-10V dimming to 1% standard.

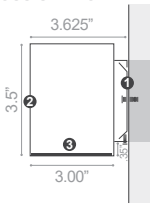
**UP TO 136.7 LUMENS PER WATT AT 90 CRI**

**LIGHT DISTRIBUTION:** LAMBERTIAN

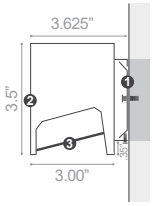



**LIGHT DISTRIBUTION:** WW


**CROSS-SECTION:** LAMBERTIAN




**CROSS-SECTION:** WW




**SAMPLE PART NUMBER:** 3W-24-MD-30-UNV-WH-C90

ORDERING

| SERIES | LENGTH | OUTPUT | | CCT | VOLTAGE | FINISH |
|---|---|---|---|---|---|---|
| **3W** | | | | | | |
| | **XX** FT<br>1' Increments<br>EX: 20' = 20 | **VHD** 1250 LM/FT<br>**HD** 1000 LM/FT<br>**MD** 750 LM/FT | **LD** 500 LM/FT<br>**VLD** 250 LM/FT<br>**CD** Custom | **30** 3000K<br>**35** 3500K<br>**40** 4000K | **UNV** 120-277V<br>**347**[1] 347V | **WH** White<br>**BLK** Black |

**ORDERING NOTES**

1 EM not available with 347V.

2 EM and sensors are not available with 2' and 3' fixtures.

3 For individual fixtures, sensor located at power feed end. For runs, a sensor is installed into each fixture in run, ex. 2 sensors are installed in a 16' run (1 sensor in each 8' fixture.

OPTIONS

| CRI | INTEGRATED CONTROLS[2, 3, 4] | OPTICAL |
|---|---|---|
| **C90** | | |
| **C90** 90 CRI | **DOS** Daylight Occupancy Sensor<br>DALI DRIVER STANDARD | **BLANK = LAMBERTIAN**<br>**WW**[5] Wall Wash, Direct |

| FOR INDIVIDUALS | |
|---|---|
| **EM**[2] | Emergency Battery<br>CEC LISTED |
| **EC** | Emergency Circuit |

| FOR LINEAR RUNS[6, 7] | | |
|---|---|---|
| **EM** | | |
| EMERGENCY BATTERY PACK | QUANTITY PER RUN[6] | POSITION IN RUN[7] |
| **EC** | | |
| EMERGENCY CIRCUIT | QUANTITY PER RUN[6] | POSITION IN RUN[7] |

**OPTIONS NOTES**

4 Consult factory for component or system not listed.

5 Integrated controls not available with wall wash.

6 EM and EC quantity is not to exceed number of discrete fixture sections in a row.

7 EM and EC position refers to which fixture in the run that will be powered by the EM/EC circuit.
Position options: **S**=Starter, **J**=Joiner, **E**=Ender,*Ex: 3W-24-HD-35-UNV-WH-EM2SJ*

| STARTER | JOINER | ENDER |
|---|---|---|

# 3W WALL
DIRECT

Manufactured in the USA | BAA Compliant | BABA Compliant | 10-Year Warranty | Standard 90+ CRI | Sure-Fit Alignment

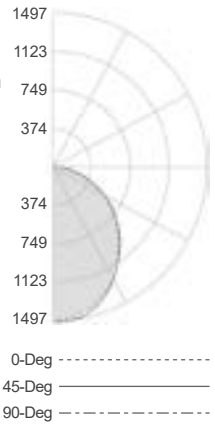
## PHOTOMETRICS & ENERGY CHARTS

### 3W-04-HD-35-UNV-XX-C90

Total Lumens: 3,999
Ratio: 0% Up & 100% Down
Wattage: 31.8
Efficacy: 126.0 LM/W
Fixture Length: Four Feet

**Zonal Lumen Summary**

| Zone | Lumens | % Fixt |
|---|---|---|
| 0 - 30 | 1136.0 | 28.4 |
| 0 - 40 | 1828.8 | 45.7 |
| 0 - 60 | 3145.9 | 78.7 |
| 0 - 90 | 3997.3 | 99.9 |
| 90 - 180 | 2.09 | 0.1 |
| 0 - 180 | 3999.4 | 100.0 |

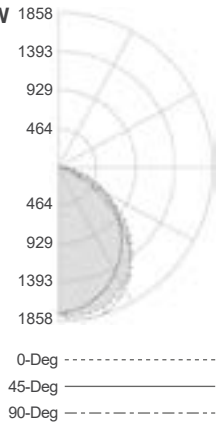



### 3W-04-HD-35-UNV-XX-C90-WW

Total Lumens: 4,057
Ratio: 0% Up & 100% Down
Wattage: 32.0
Efficacy: 127.0 LM/W
Fixture Length: Four Feet

**Zonal Lumen Summary**

| Zone | Lumens | % Fixt |
|---|---|---|
| 0 - 30 | 1302.7 | 32.1 |
| 0 - 40 | 2069.4 | 51.0 |
| 0 - 60 | 3396.3 | 83.7 |
| 0 - 90 | 4056.4 | 100.0 |
| 90 - 180 | 0.23 | 0.0 |
| 0 - 180 | 4056.6 | 100.0 |




### Direct (Lambertian) Light at 90 CRI, 3500K

| | VHD:1250 | HD:1000 | MD:750 | LD:500 | VLD:250 |
|---|---|---|---|---|---|
| Watts/ft | 10.4 | 8.0 | 5.9 | 3.9 | 2.0 |
| Lumens/ft | 1255 | 999 | 755 | 499 | 268 |
| LPW | 120.7 | 124.9 | 128.0 | 127.9 | 136.7 |

### Direct (Wall Wash) Light at 90 CRI, 3500K

| | VHD:1250 | HD:1000 | MD:750 | LD:500 | VLD:250 |
|---|---|---|---|---|---|
| Watts/ft | 10.4 | 8.0 | 5.9 | 3.9 | 2.0 |
| Lumens/ft | 1274 | 1014 | 766 | 506 | 272 |
| LPW | 122.5 | 126.7 | 129.9 | 129.9 | 138.8 |

### Lumen Adjustment Calculations

| LUMEN MULTIPLIERS | |
|---|---|
| 3000K | 0.995 |
| 4000K | 1.023 |

**Example: MD, 3000K at 90CRI**
Light Output: 3020 x 0.995 = 3004 lm
Light Output/ft: 755 x 0.995 = 752 lm/ft
Efficacy = 751 / 5.9 = 127.2 lm/W

## SPECIFICATIONS

## MECHANICAL

**Housing Construction:**
Extruded Aluminum 6063-T5 alloy outer housing and LED tray with die-formed steel internal components for strength, alignment and mounting attachment. Our high-quality die-cast end caps are engineered to conceal all fasteners and to retain the sealing gaskets on the inside of the fixture while completing the clean and minimalistic look of this luminaire.

**Alignment/Assembly:**
The alignment system employs a four-point alignment and attachment method, designed to create straighter rows and minimize seams between sections (field assembled). Four alignment pins ensure the outer extruded aluminum rails are aligned, while a draw-screw secures housing-to-housing attachment. Additional alignment biscuits double as the light shields.

**Lengths:**
The 3W is available in a minimum 2-foot (nominal) length with additional 1-foot increments available (±0.030”). Longer fixture rows are available and will be configured with 4-foot, 5-foot, 6-foot, 7-foot, and 8-foot fixtures. Maximum run length on one power feed is 72'. Continuous runs over 72' will require a second feed.

**Mounting Method/Hardware:**
Standard mounting hardware includes a galvanized wall cleat with side to side adjusting for final alignment. Feed Point is on the left-hand mounting point for all products longer than 2'; All 2' products have a center feed point.

**Exterior Finish:**
The 3W is available in White and Black polyester powder coat finish to ensure durability.

**Integrated Controls:**
The 3W is available with optional integrated controls. Sensors are conveniently designed to mount in aperture and are located at the power feed end of each fixture. For runs, each fixture section will be supplied with a discrete sensor that will control that specific section. Philips EasySense is standard daylight/occupancy sensor. DALI driver required. If your project requires a component or system not listed, please contact your Lumato lighting representative.

| MANUFACTURER | ORDERING CODE | SENSOR | CONNECTION | DRIVER |
|---|---|---|---|---|
| Philips EasySense | DOS | Daylight/PIR Occupancy | Wireless | DALI (Advanced Xitanium SR, 1% Dimming) |

## OPERATION

**Light Engine:**
The 3W is available in 3000K, 3500K and 4000K CCT all within a 3-Step MacAdam Ellipse and has a standard CRI of 90+.

**Optics:**
The back-lit extruded acrylic lens ensures high efficiency light output, in a minimal form factor for a clean, evenly illuminated surface with minimal glare.

**Optional Direct Wall Wash:**
Asymmetric extruded aluminum reflector with recessed extruded acrylic lens to achieve a superior wall uniformity while minimizing glare.

**Electrical:**
Class 2 programmable (factory pre-set) premium power supply, 120-277VAC input. Power factor >0.9. THD <15%. Integral Surge Protection to 2KV.

**Dimming:**
The 3W comes standard with 0-10V dimming to 1%. For DOS (Daylight/Occupancy Sensor) ordering code, DALI driver required. Advance Xitanium SR, 1% dimming to be utilized.

**Emergency Battery Pack:**
Emergency Battery Pack has been engineered to exceed UL minimum safety standards. Standard battery is CEC Listed. For most fixtures, the entire direct portion of the fixture will be illuminated by the EM Battery Pack. For 8’ VHD, 10’ HD and VHD, and 12’ MD, HD, and VHD, only the first portion of the fixture will be illuminated by the EM battery pack. “Quantity per Run” refers to the number of fixtures in the run that will be supplied with an emergency battery pack. “Position in Run” refers to which fixture in the run that will contain the battery. Position options are Starter (S), Joiner (J), or Ender (E). For example, a 24’ run needing two emergency battery packs, one in the starter and one in the joiner, would be ordered as EM2SJ. When a joiner is selected, battery packs are always supplied in 8’ fixtures before 6’ fixtures in that run.

**Emergency Circuit:**
Emergency Circuit fixtures are engineered so that the entire fixture is wired to the emergency circuit. “Quantity per Run” refers to the number of fixtures in the run that are wired to the emergency circuit. “Position in Run” refers to which fixture in the run that will be powered by the Emergency Circuit. Position options are Starter (S), Joiner (J), or Ender (E). For example, a 24’ run needing two emergency sections, one in the starter and one in the joiner, would be ordered as EC2SJ. When a joiner is selected, Emergency Circuits are always supplied in 8’ fixtures before 6’ fixtures in that run.

## GENERAL

**Warranty:**
Ten (10) year limited warranty from date of shipment, covers LED’s, driver and luminaire. Optional accessories are covered by their individual Manufacturers’ warranties.

**Lumen Maintenance:**
Rated for 85% initial lumen output at 90,000 Hours of operation, operated at 25ºC ambient temperature; per TM-21 Guidelines published by the Illuminating Engineering Society (IES).

**Certifications:**
All Luminaires are UL/cUL Listed to UL 1598 Standards and approved for Indoor use in Dry/Damp Locations.

**Manufactured in the USA:**
All Lumato Luminaires and Components (with the exception of our LED boards and drivers) are proudly manufactured and assembled in the USA.

**Shipping:**
4 week lead-time for orders up to 1000 linear feet.

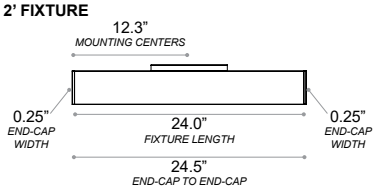
Lead-time for orders greater than 1000 linear feet will be determined at time of order.

# **3W** WALL
DIRECT

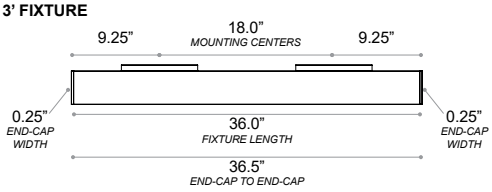
Manufactured in the USA | BAA Compliant | BABA Compliant | 10-Year Warranty | Standard 90+ CRI | Sure-Fit Alignment

## Fixture Row Layout: Single Unit 2' - 3' - 4' - 5' - 6' - 7' - 8' - 9' - 10' - 11' - 12'

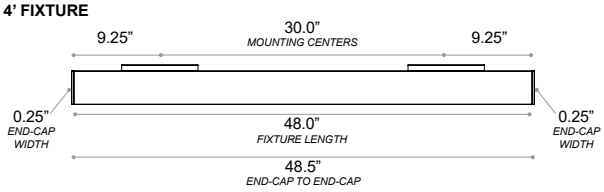
### 2' FIXTURE



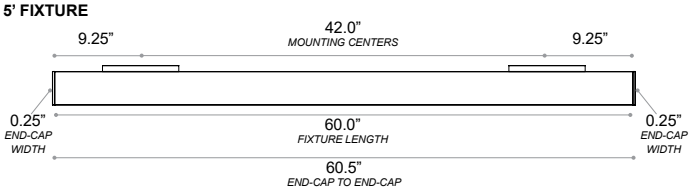

### 3' FIXTURE



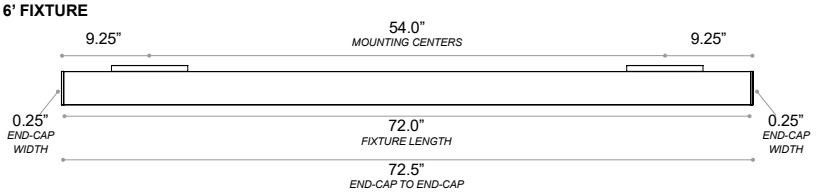

### 4' FIXTURE



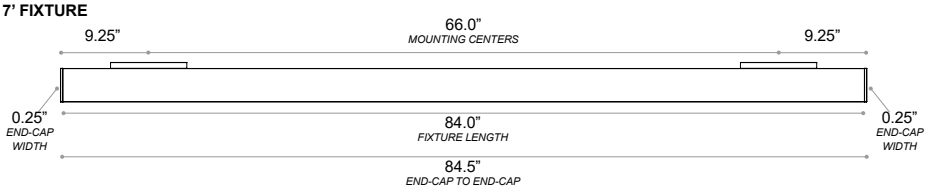

### 5' FIXTURE



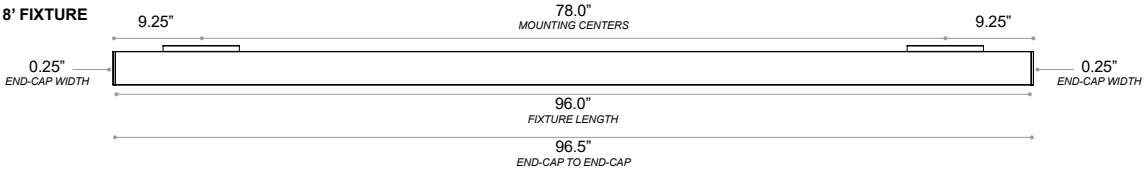

### 6' FIXTURE



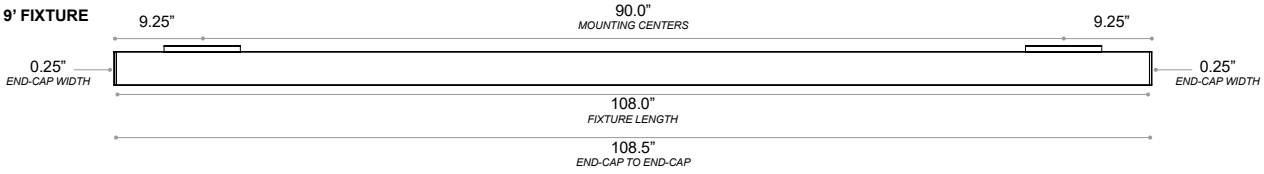

### 7' FIXTURE



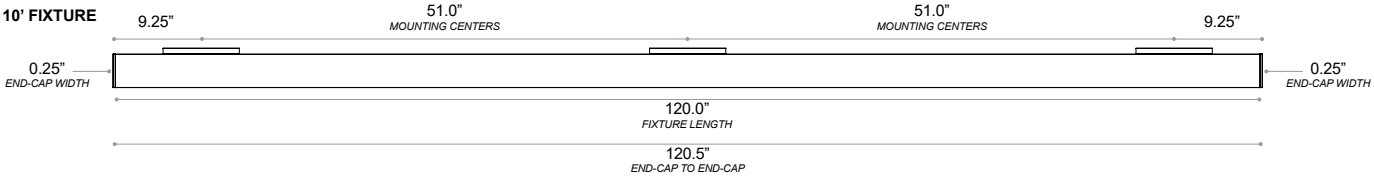

### 8' FIXTURE



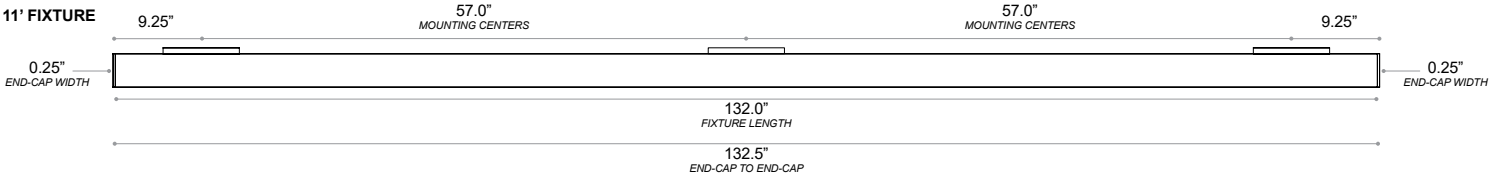

### 9' FIXTURE



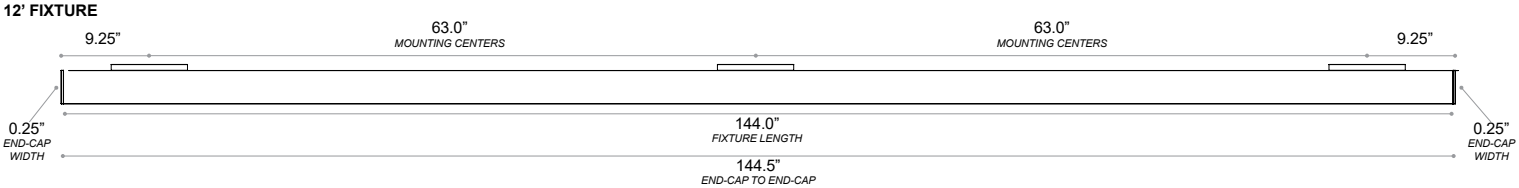

### 10' FIXTURE




### 11' FIXTURE



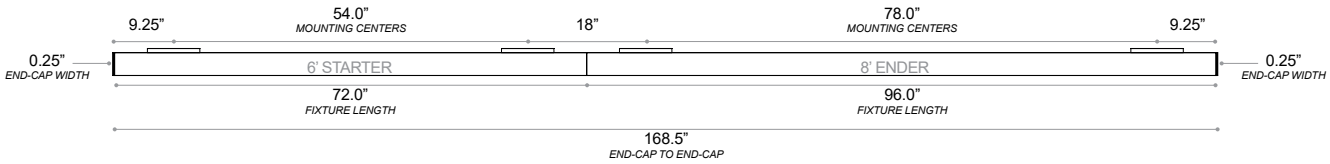

### 12' FIXTURE



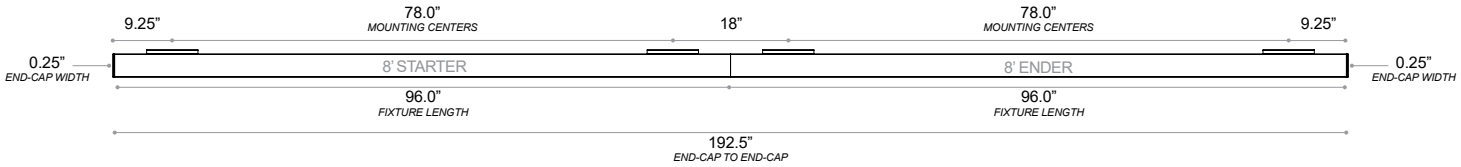
# **3W** WALL
DIRECT

Manufactured in the USA | BAA Compliant | BABA Compliant | 10-Year Warranty | Standard 90+ CRI | Sure-Fit Alignment

## Fixture Row Layout: Two Units 14’ - 16’

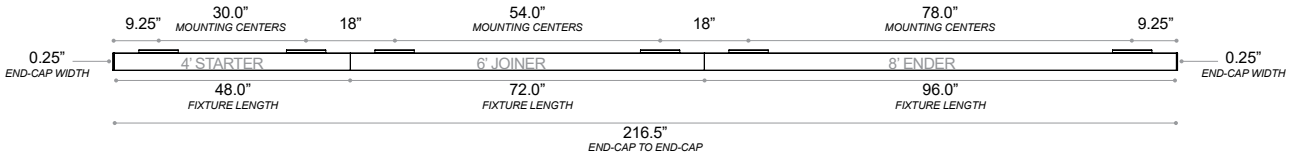



**16’ FIXTURE**

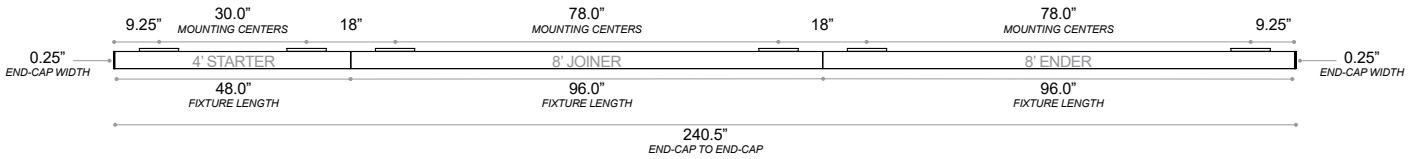



## FIXTURE ROW LAYOUT: THREE UNITS 18’ - 20’ - 22’ - 24’

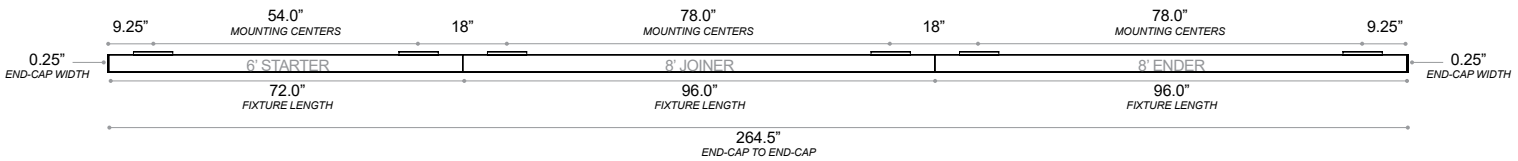
**18’ FIXTURE**



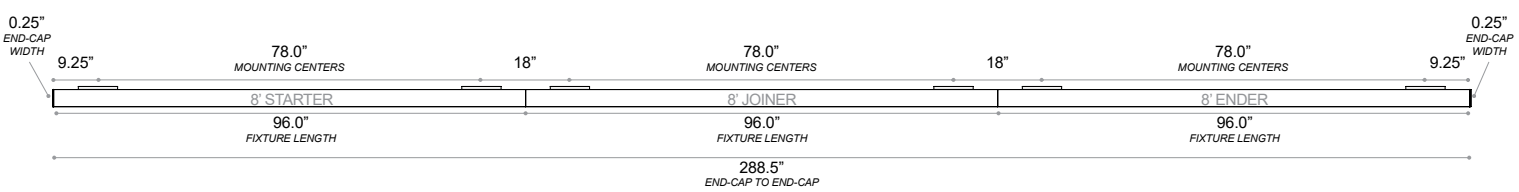

**20’ FIXTURE**




**22’ FIXTURE**




**24’ FIXTURE**



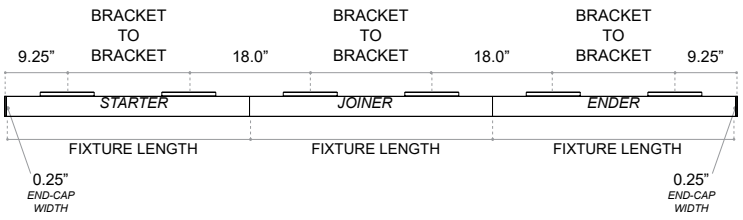
# 3W WALL
DIRECT

Manufactured in the USA | BAA Compliant | BABA Compliant | 10-Year Warranty | Standard 90+ CRI | Sure-Fit Alignment

## Fixture Row Components

| RUN LENGTH | FIXTURE LENGTHS | | | | | | | | | JOINER KITS |
|---|---|---|---|---|---|---|---|---|---|---|
| | STARTER | JOINER | | | | | | | ENDER | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| 13’ | 5’ | - | - | - | - | - | - | - | 8’ | 1 |
| 14’ | 6’ | - | - | - | - | - | - | - | 8’ | 1 |
| 15’ | 7’ | - | - | - | - | - | - | - | 8’ | 1 |
| 16’ | 8’ | - | - | - | - | - | - | - | 8’ | 1 |
| 17’ | 3’ | 6’ | - | - | - | - | - | - | 8’ | 2 |
| 18’ | 4’ | 6’ | - | - | - | - | - | - | 8’ | 2 |
| 19’ | 5’ | 6’ | - | - | - | - | - | - | 8’ | 2 |
| 20’ | 4’ | 8’ | - | - | - | - | - | - | 8’ | 2 |
| 21’ | 5’ | 8’ | - | - | - | - | - | - | 8’ | 2 |
| 22’ | 6’ | 8’ | - | - | - | - | - | - | 8’ | 2 |
| 23’ | 7’ | 8’ | - | - | - | - | - | - | 8’ | 2 |
| 24’ | 8’ | 8’ | - | - | - | - | - | - | 8’ | 2 |
| 25’ | 5’ | 6’ | 6’ | - | - | - | - | - | 8’ | 3 |
| 26’ | 4’ | 6’ | 8’ | - | - | - | - | - | 8’ | 3 |
| 27’ | 5’ | 6’ | 8’ | - | - | - | - | - | 8’ | 3 |
| 28’ | 4’ | 8’ | 8’ | - | - | - | - | - | 8’ | 3 |
| 29’ | 5’ | 8’ | 8’ | - | - | - | - | - | 8’ | 3 |
| 30’ | 6’ | 8’ | 8’ | - | - | - | - | - | 8’ | 3 |
| 31’ | 7’ | 8’ | 8’ | - | - | - | - | - | 8’ | 3 |
| 32’ | 8’ | 8’ | 8’ | - | - | - | - | - | 8’ | 3 |
| 33’ | 5’ | 6’ | 6’ | 8’ | - | - | - | - | 8’ | 4 |
| 34’ | 4’ | 6’ | 8’ | 8’ | - | - | - | - | 8’ | 4 |
| 35’ | 5’ | 6’ | 8’ | 8’ | - | - | - | - | 8’ | 4 |
| 36’ | 4’ | 8’ | 8’ | 8’ | - | - | - | - | 8’ | 4 |
| 37’ | 5’ | 8’ | 8’ | 8’ | - | - | - | - | 8’ | 4 |
| 38’ | 6’ | 8’ | 8’ | 8’ | - | - | - | - | 8’ | 4 |
| 39’ | 7’ | 8’ | 8’ | 8’ | - | - | - | - | 8’ | 4 |
| 40’ | 8’ | 8’ | 8’ | 8’ | - | - | - | - | 8’ | 4 |
| 41’ | 5’ | 6’ | 6’ | 8’ | 8’ | - | - | - | 8’ | 5 |
| 42’ | 4’ | 6’ | 8’ | 8’ | 8’ | - | - | - | 8’ | 5 |
| 43’ | 5’ | 6’ | 8’ | 8’ | 8’ | - | - | - | 8’ | 5 |
| 44’ | 4’ | 8’ | 8’ | 8’ | 8’ | - | - | - | 8’ | 5 |
| 45’ | 5’ | 8’ | 8’ | 8’ | 8’ | - | - | - | 8’ | 5 |
| 46’ | 6’ | 8’ | 8’ | 8’ | 8’ | - | - | - | 8’ | 5 |
| 47’ | 7’ | 8’ | 8’ | 8’ | 8’ | - | - | - | 8’ | 5 |
| 48’ | 8’ | 8’ | 8’ | 8’ | 8’ | - | - | - | 8’ | 5 |
| 49’ | 5’ | 6’ | 6’ | 8’ | 8’ | 8’ | - | - | 8’ | 6 |
| 50’ | 4’ | 6’ | 8’ | 8’ | 8’ | 8’ | - | - | 8’ | 6 |
| 51’ | 5’ | 6’ | 8’ | 8’ | 8’ | 8’ | - | - | 8’ | 6 |
| 52’ | 4’ | 8’ | 8’ | 8’ | 8’ | 8’ | - | - | 8’ | 6 |
| 53’ | 5’ | 8’ | 8’ | 8’ | 8’ | 8’ | - | - | 8’ | 6 |
| 54’ | 6’ | 8’ | 8’ | 8’ | 8’ | 8’ | - | - | 8’ | 6 |
| 55’ | 7’ | 8’ | 8’ | 8’ | 8’ | 8’ | - | - | 8’ | 6 |
| 56’ | 8’ | 8’ | 8’ | 8’ | 8’ | 8’ | - | - | 8’ | 6 |
| 57’ | 5’ | 6’ | 6’ | 8’ | 8’ | 8’ | 8’ | - | 8’ | 7 |
| 58’ | 4’ | 6’ | 8’ | 8’ | 8’ | 8’ | 8’ | - | 8’ | 7 |
| 59’ | 5’ | 6’ | 8’ | 8’ | 8’ | 8’ | 8’ | - | 8’ | 7 |
| 60’ | 4’ | 8’ | 8’ | 8’ | 8’ | 8’ | 8’ | - | 8’ | 7 |
| 72’ | 8’ | 8’ | 8’ | 8’ | 8’ | 8’ | 8’ | 8’ | 8’ | 8 |

| | FIXTURE LENGTH | CENTER-TO-CENTER BRACKET SPACING |
|---|---|---|
| 3’ | 36.0” | 18.0” |
| 4’ | 48.0” | 30.0” |
| 5’ | 60.0” | 42.0” |
| 6’ | 72.0” | 54.0” |
| 7’ | 84.0” | 66.0” |
| 8’ | 96.0” | 78.0” |




**Note 1**: 2’ fixtures use a single mounting bracket centered on the fixture
**Note 2:** 10’, 11’, and 12’ fixtures have a third mounting bracket centered on the fixture