AMERICAN LINEAR LIGHTING

MANUFACTURED IN THE USA | 10 YEAR WARRANTY | 2-WEEK LEAD TIME | VERTICAL INTEGRATION

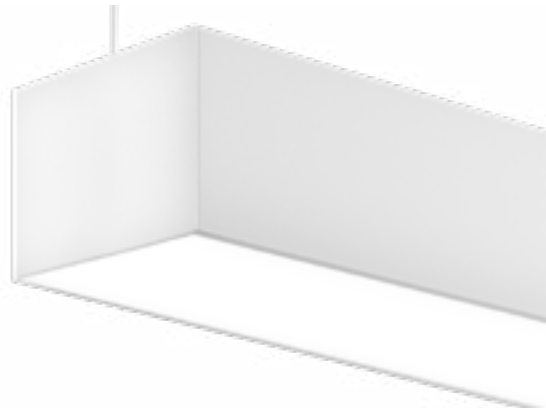
5SID SUSPENDED

INDIRECT / DIRECT

5-INCH FAMILY

DATE | PROJECT

COMMENTS



PRODUCT FEATURES

FIXTURE HOUSING
Width: 5.0" Height: 4.5"

INDIRECT ILLUMINATION
We offer three indirect illumination options: Standard Lambertian can be upgraded to Batwing Up (BW) or Asymmetric Up (AU)

ONE-PIECE EXTRUDED ALUMINUM HOUSING
Housing ensures straighter rows and consistent lens retention

120/277VAC 0-10 VOLT DIMMING TO 1% STANDARD

UP TO 159.0 LUMENS PER WATT AT 90 CRI

c UL us LISTED | BAA COMPLIANT | BABA COMPLIANT | UNIFORM DIRECT ILLUMINATION | SURE-FIT ALIGNMENT | INDIRECT ILLUMINATION | INDIRECT BATWING | 90 CRI STANDARD

ORDERING GUIDE EX: 5SID - 20 - VHU - MD - 35 - UNV - T1 - WH - C90

SERIES	LENGTH	UPPER OUTPUT	DIRECT OUTPUT	CCT	VOLTAGE	MOUNTING	COLOR
5SID							
	XX FT	**VHU** 1250 LM/FT	**VHD** 1250 LM/FT	**30** 3000K	**UNV** 120-277V	**T1** 1" Grid	**WH** White
	1' Increments EX: 20' = 20	**HU** 1000 LM/FT	**HD** 1000 LM/FT	**35** 3500K	**347**[1] 347V	**T9** 9/16" Grid	**BLK** Black
		MU 750 LM/FT	**MD** 750 LM/FT	**40** 4000K		**SC** Screw Slot	
		LU 500 LM/FT	**LD** 500 LM/FT			**HC** Hard Ceiling	
		VLU[4] 250 LM/FT	**VLD** 250 LM/FT			**JB** Junction Box	
		CU Custom	**CD** Custom				

ORDERING NOTES

1. EM NOT AVAILABLE WITH 347V.
2. EM 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).
4. VLU NOT AVAILABLE ON 2 FT LENGTHS.

OPTIONS

CRI	SUSPENSION	INTEGRATED CONTROLS[2, 3, 5]	OPTICAL	CIRCUITING
C90				
C90 90 CRI	**BLANK = 48" CABLE**	**DOS** Daylight Occupancy Sensor DALI DRIVER STANDARD	**BLANK = LAMBERTIAN**	**SS-U/D** Separate Switching UPWARDS/DOWNWARDS
	CB96 96" Cables		**BW** Batwing Up	
	CB144 144" Cables		**AU** Asymmetric Up	
	BC Black Canopy & Cord			

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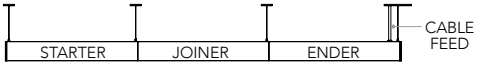
FOR INDIVIDUALS	
EM[2]	Emergency Battery CEC LISTED
EC	Emergency Circuit

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[5]

5. CONSULT FACTORY FOR COMPONENT OR SYSTEM NOT LISTED.
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: 5SID-20-HU-HD-35-UNV-T1-WH-EM2SJ



AMERICAN LINEAR LIGHTING

5SID SUSPENDED
INDIRECT / DIRECT

5-INCH FAMILY

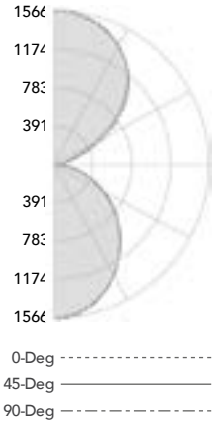
PHOTOMETRICS

5SID-04-HU-HD-35-UNV-XX-C90

Total Lumens: 8,125
Ratio: 50% Up & 50% Down
Wattage: 52.5
Efficacy: 154.7 LM/W
Fixture Length: Four Feet

Zonal Lumen Summary

Zone	Lumens	% Fixt
0 - 30	1173.3	14.4
0 - 40	1888.0	23.2
0 - 60	3240.3	39.9
0 - 90	4091.6	50.4
90 - 180	4033.4	49.6
0 - 180	8124.9	100.0



ENERGY CONSUMPTION WATTS PER LINEAR FOOT

INDIRECT (LAMBERTIAN) / DIRECT (LAMBERTIAN) LIGHT AT 90 CRI, 3500K

	VHU-VHD	VHU-HD	VHU-MD	VHU-LD	VHU-VLD
Watts/ft	16.8	14.9	13.2	11.5	9.8
Lumens/ft	2556	2311	2041	1793	1552
LPW	152.1	155.1	154.6	155.9	159.0

	LU-VHD	LU-HD	LU-MD	LU-LD	LU-VLD
Watts/ft	12.1	10.2	8.5	6.8	5.1
Lumens/ft	1779	1534	1263	1016	775
LPW	147.0	150.3	148.6	149.3	153.1

	HU-VHD	HU-HD	HU-MD	HU-LD	HU-VLD
Watts/ft	15.0	13.1	11.4	9.7	8.0
Lumens/ft	2276	2031	1761	1513	1272
LPW	151.4	154.7	154.0	155.5	159.2

	VLU-VHD	VLU-HD	VLU-MD	VLU-LD	VLU-VLD
Watts/ft	10.7	8.8	7.1	5.4	3.6
Lumens/ft	1530	1285	1014	767	526
LPW	143.6	146.8	143.9	143.3	145.6

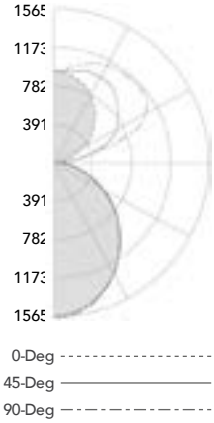
	MU-VHD	MU-HD	MU-MD	MU-LD	MU-VLD
Watts/ft	13.5	11.6	9.9	8.2	6.4
Lumens/ft	2010	1765	1494	1247	1006
LPW	149.1	152.4	151.2	152.4	156.1

5SID-04-HU-HD-35-UNV-XX-C90-BW

Total Lumens: 7,965
Ratio: 50% Up & 50% Down
Wattage: 52.5
Efficacy: 151.7 LM/W
Fixture Length: Four Feet

Zonal Lumen Summary

Zone	Lumens	% Fixt
0 - 30	1173.3	14.7
0 - 40	1888.0	23.7
0 - 60	3240.3	40.7
0 - 90	4091.6	51.4
90 - 180	3873.8	48.6
0 - 180	7965.3	100.0



INDIRECT (BATWING) / DIRECT (LAMBERTIAN) LIGHT AT 90 CRI, 3500K

	VHU-VHD	VHU-HD	VHU-MD	VHU-LD	VHU-VLD
Watts/ft	16.8	14.9	13.1	11.5	9.7
Lumens/ft	2505	2260	1990	1742	1501
LPW	149.1	151.7	151.9	151.5	154.7

	LU-VHD	LU-HD	LU-MD	LU-LD	LU-VLD
Watts/ft	12.1	10.2	8.4	6.8	5.0
Lumens/ft	1758	1513	1243	995	754
LPW	145.3	148.4	148.0	146.4	150.9

	HU-VHD	HU-HD	HU-MD	HU-LD	HU-VLD
Watts/ft	15.0	13.1	11.3	9.7	7.9
Lumens/ft	2236	1991	1721	1473	1232
LPW	148.8	151.7	151.9	151.4	155.4

	VLU-VHD	VLU-HD	VLU-MD	VLU-LD	VLU-VLD
Watts/ft	10.7	8.8	7.0	5.4	3.6
Lumens/ft	1519	1274	1004	756	515
LPW	142.7	145.6	144.5	141.4	145.2

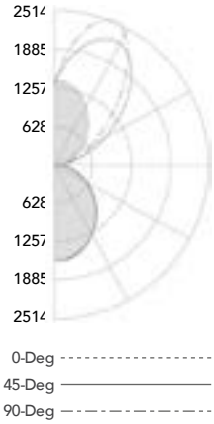
	MU-VHD	MU-HD	MU-MD	MU-LD	MU-VLD
Watts/ft	13.5	11.6	9.8	8.2	6.4
Lumens/ft	1980	1735	1465	1217	976
LPW	146.9	149.8	149.8	148.8	153.0

5SID-04-HU-HD-35-UNV-XX-C90-AU

Total Lumens: 7,976
Ratio: 50% Up & 50% Down
Wattage: 52.5
Efficacy: 151.9 LM/W
Fixture Length: Four Feet

Zonal Lumen Summary

Zone	Lumens	% Fixt
0 - 30	1173.3	14.7
0 - 40	1888.0	23.7
0 - 60	3240.3	40.6
0 - 90	4091.6	51.3
90 - 180	3884.4	48.7
0 - 180	7975.9	100.0



INDIRECT (ASYMMETRIC) / DIRECT (LAMBERTIAN) LIGHT AT 90 CRI, 3500K

	VHU-VHD	VHU-HD	VHU-MD	VHU-LD	VHU-VLD
Watts/ft	16.8	14.9	13.1	11.5	9.7
Lumens/ft	2508	2263	1993	1745	1504
LPW	149.3	151.9	152.1	151.8	155.1

	LU-VHD	LU-HD	LU-MD	LU-LD	LU-VLD
Watts/ft	12.1	10.2	8.4	6.8	5.0
Lumens/ft	1760	1515	1244	997	756
LPW	145.4	148.5	148.1	146.6	151.1

	HU-VHD	HU-HD	HU-MD	HU-LD	HU-VLD
Watts/ft	15.0	13.1	11.3	9.7	7.9
Lumens/ft	2239	1994	1724	1476	1235
LPW	149.0	151.9	152.1	151.7	155.7

	VLU-VHD	VLU-HD	VLU-MD	VLU-LD	VLU-VLD
Watts/ft	10.7	8.8	7.0	5.4	3.6
Lumens/ft	1520	1275	1005	757	516
LPW	142.7	145.7	144.6	141.5	145.4

	MU-VHD	MU-HD	MU-MD	MU-LD	MU-VLD
Watts/ft	13.5	11.6	9.8	8.2	6.4
Lumens/ft	1982	1737	1467	1219	978
LPW	147.0	150.0	150.0	149.0	153.3

LUMEN ADJUSTMENT CALCULATIONS

LUMEN MULTIPLIER	
3000K	0.995
3500K	1.000
4000K	1.023

Example: HU-MD Output, 3000K at 90CRI
Total Light Output: 7044 x 0.995 = 7009 lm
Total Light Output Per Foot: 1761 x 0.995 = 1752 lm/ft
Efficacy = 1752 / 11.4 = 153.6 lm/W

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INDIRECT / DIRECT

5-INCH FAMILY

OPERATION

Light Engine:
The 5SID 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.

Indirect Optics:
Standard Lambertian can be upgraded to indirect batwing (BW) or Asymmetric (AU). The extruded acrylic batwing lens (BW) provides an ultra-wide distribution with even illumination across the ceiling while allowing for maximum spacing between fixtures. The Asymmetric (AU) diffused forward-throw optics properly illuminates the wall. All 3 indirect acrylic optics protect LED's from dust and debris.

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 5SID 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.

MECHANICAL

Housing Construction:
Extruded Aluminum 6063-T5 alloy outer housing 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 5SID is available in a minimum 2-foot (nominal) length with additional 1-foot increments available (±0.030", ±0.50°). 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:
The 5SID is available for mounting upon any ceiling type, additional mounting hardware available by others.

Exterior Finish:
The 5SID is available in White and Black polyester powder coat finish to ensure durability.

Suspension Components:
The Hidden Connect design recesses or hides attachment hardware at the fixture. Fixtures are suspended by 1/16" galvanized aircraft cable. Cables are attached to the ceiling suspension point with a ¼-20 threaded ceiling cable barrel that incorporates a threaded ring to support the feed/hanger canopy allowing access to the J-box/hanger without removal of the suspension cable allowing conductor inspection/service without having to support the fixture(s). Feed canopies are 5" O.D. And hanger canopies are 2" O.D. (JB Option = 5" O.D.). Cable lengths can be specified for 48", 96" and 144" suspension lengths. Ceiling type options are "T1" T-grid, "T9" T-grid, "SC" screw slot grid, "HC" hard ceiling or "JB" hard ceiling J-box mount.

Integrated Controls:
The 5SID 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 local American Linear Lighting representative.

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

GENERAL

Warranty:
Ten (10) Year limited warranty from date of shipment.

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

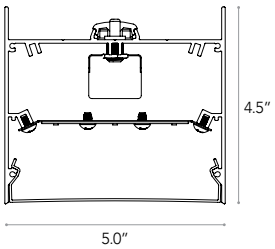
Certifications:
All Luminaires are UL/cUL Listed to UL 1598 Standards and approved for Indoor use in Dry/Damp Locations.

Shipping:
2 week lead time for White (WH) or Black (BLK) finish orders up to 1000 feet. Lead time for orders greater than 1000 linear feet will be determined at time of order.

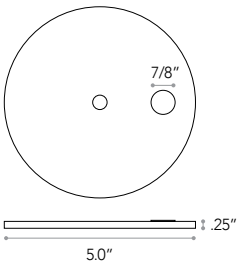
Manufactured in the USA:
All ALL Luminaires and Components (with the exception of our LED boards and drivers) are proudly manufactured and assembled in the USA.

MOUNTING DETAILS

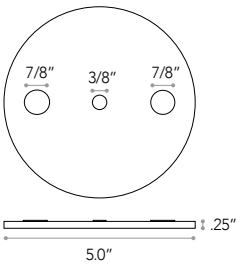
SECTION



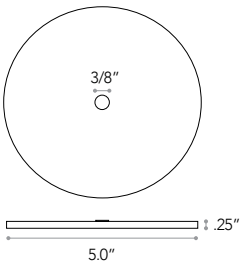
SINGLE FEED CANOPY



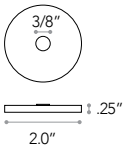
DUAL FEED CANOPY



JB HANGER CANOPY

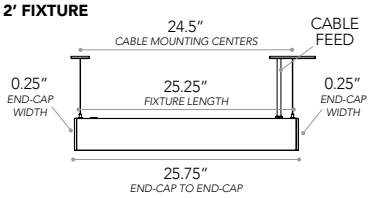


HANGER CANOPY
(T1, T9, SC, HC)

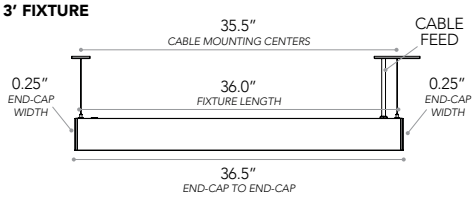


FIXTURE ROW LAYOUT: SINGLE UNIT 2′ - 3′ - 4′ - 5′ - 6′ - 7′ - 8′ - 9′ - 10′ - 11′ - 12′

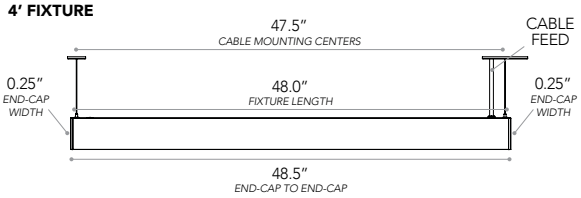
2′ FIXTURE



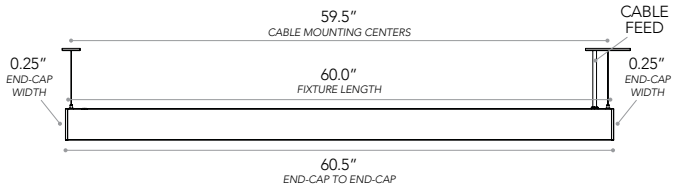
3′ FIXTURE



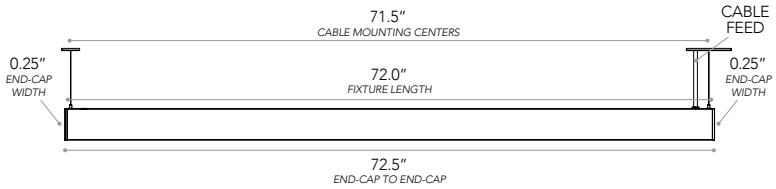
4′ FIXTURE



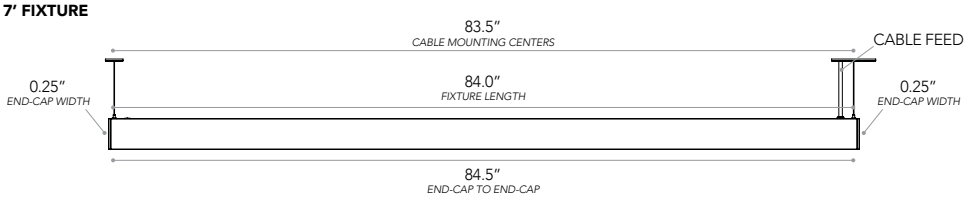
5′ FIXTURE



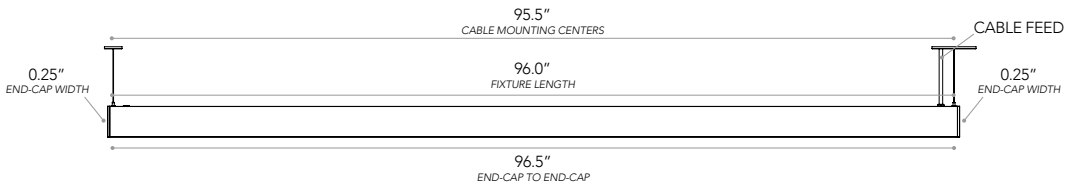
6′ FIXTURE



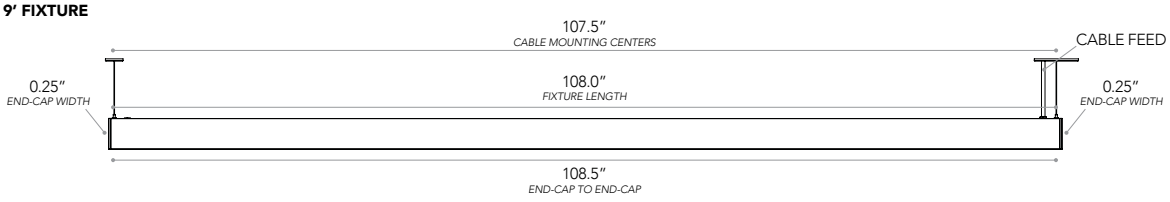
7′ FIXTURE



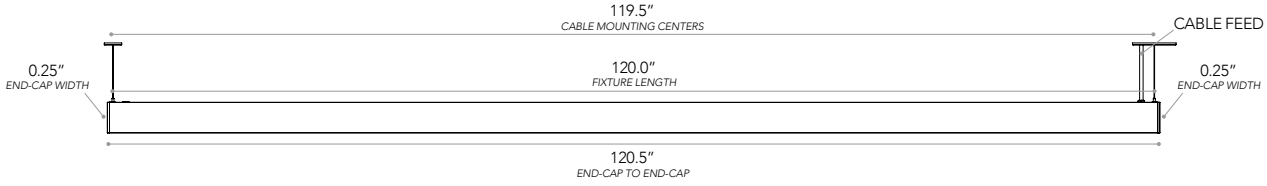
8′ FIXTURE



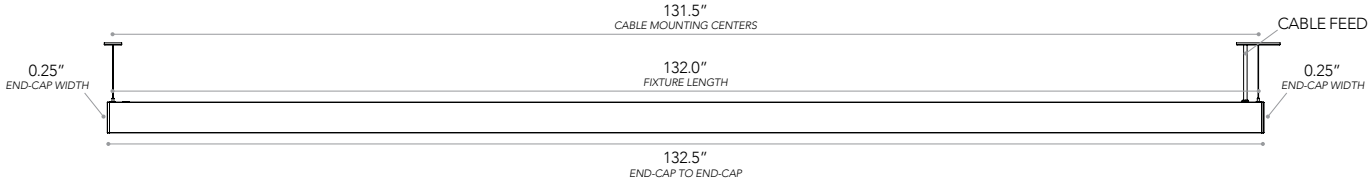
9′ FIXTURE



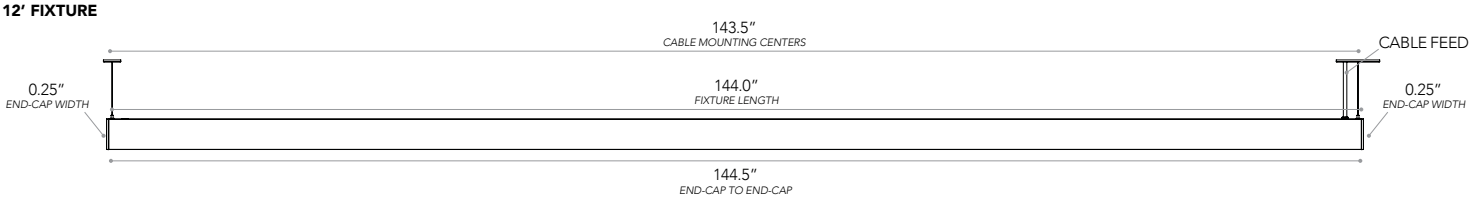
10′ FIXTURE



11′ FIXTURE

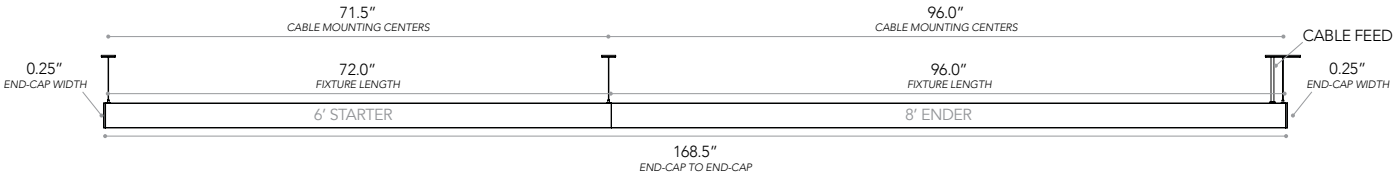


12′ FIXTURE

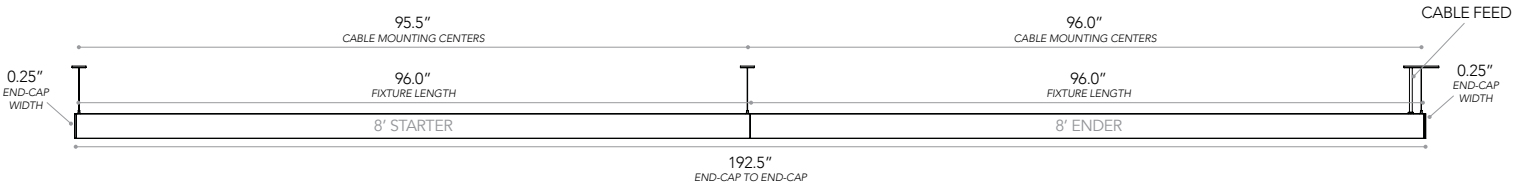


FIXTURE ROW LAYOUT: TWO UNITS 14′ - 16′

14′ FIXTURE

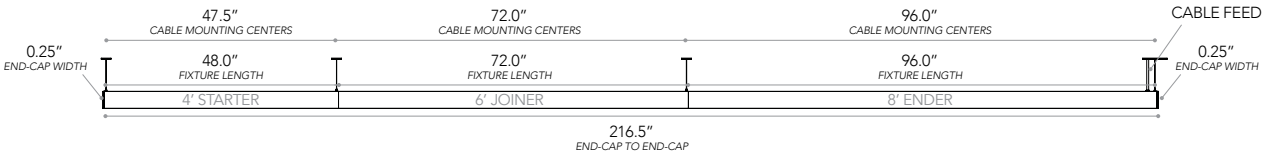


16′ FIXTURE

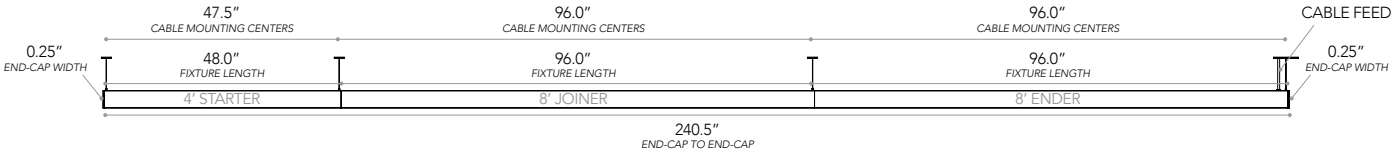


FIXTURE ROW LAYOUT: THREE UNITS 18′ - 20′ - 22′ - 24′

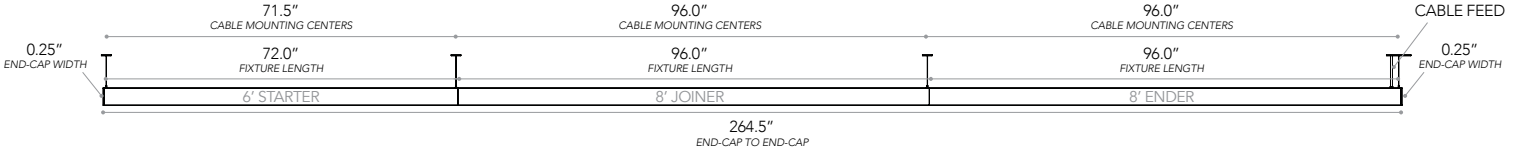
18′ FIXTURE



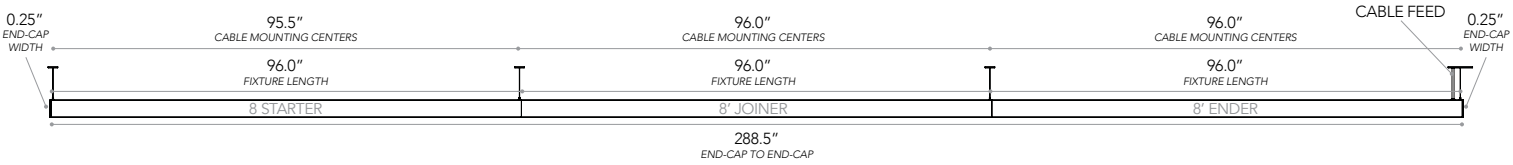
20′ FIXTURE



22′ FIXTURE



24′ FIXTURE



FIXTURE ROW COMPONENTS

RUN LENGTH	FIXTURE LENGTHS									JOINER	FEED KITS	HANGER KITS	END-CAP TO END-CAP
	STARTER	JOINER							ENDER				
	1	2	3	4	5	6	7	8	9				
13′	5′	-	-	-	-	-	-	-	8′	1	1	2	156.5″
14′	6′	-	-	-	-	-	-	-	8′	1	1	2	168.5″
15′	7′	-	-	-	-	-	-	-	8′	1	1	2	180.5″
16′	8′	-	-	-	-	-	-	-	8′	1	1	2	192.5″
17′	3′	6′	-	-	-	-	-	-	8′	2	1	3	204.5″
18′	4′	6′	-	-	-	-	-	-	8′	2	1	3	216.5″
19′	5′	6′	-	-	-	-	-	-	8′	2	1	3	228.5″
20′	4′	8′	-	-	-	-	-	-	8′	2	1	3	240.5″
21′	5′	8′	-	-	-	-	-	-	8′	2	1	3	252.5″
22′	6′	8′	-	-	-	-	-	-	8′	2	1	3	264.5″
23′	7′	8′	-	-	-	-	-	-	8′	2	1	3	276.5″
24′	8′	8′	-	-	-	-	-	-	8′	2	1	3	288.5″
25′	5′	6′	6′	-	-	-	-	-	8′	3	1	4	300.5″
26′	4′	6′	8′	-	-	-	-	-	8′	3	1	4	312.5″
27′	5′	6′	8′	-	-	-	-	-	8′	3	1	4	324.5″
28′	4′	8′	8′	-	-	-	-	-	8′	3	1	4	336.5″
29′	5′	8′	8′	-	-	-	-	-	8′	3	1	4	348.5″
30′	6′	8′	8′	-	-	-	-	-	8′	3	1	4	360.5″
31′	7′	8′	8′	-	-	-	-	-	8′	3	1	4	372.5″
32′	8′	8′	8′	-	-	-	-	-	8′	3	1	4	384.5″
33′	5′	6′	6′	8′	-	-	-	-	8′	4	1	5	396.5″
34′	4′	6′	8′	8′	-	-	-	-	8′	4	1	5	408.5″
35′	5′	6′	8′	8′	-	-	-	-	8′	4	1	5	420.5″
36′	4′	8′	8′	8′	-	-	-	-	8′	4	1	5	432.5″
37′	5′	8′	8′	8′	-	-	-	-	8′	4	1	5	444.5″
38′	6′	8′	8′	8′	-	-	-	-	8′	4	1	5	456.5″
39′	7′	8′	8′	8′	-	-	-	-	8′	4	1	5	468.5″
40′	8′	8′	8′	8′	-	-	-	-	8′	4	1	5	480.5″
41′	5′	6′	6′	8′	8′	-	-	-	8′	5	1	6	492.5″
42′	4′	6′	8′	8′	8′	-	-	-	8′	5	1	6	504.5″
43′	5′	6′	8′	8′	8′	-	-	-	8′	5	1	6	516.5″
44′	4′	8′	8′	8′	8′	-	-	-	8′	5	1	6	528.5″
45′	5′	8′	8′	8′	8′	-	-	-	8′	5	1	6	540.5″
46′	6′	8′	8′	8′	8′	-	-	-	8′	5	1	6	552.5″
47′	7′	8′	8′	8′	8′	-	-	-	8′	5	1	6	564.5″
48′	8′	8′	8′	8′	8′	-	-	-	8′	5	1	6	576.5″
49′	5′	6′	6′	8′	8′	8′	-	-	8′	6	1	7	588.5″
50′	4′	6′	8′	8′	8′	8′	-	-	8′	6	1	7	600.5″
51′	5′	6′	8′	8′	8′	8′	-	-	8′	6	1	7	612.5″
52′	4′	8′	8′	8′	8′	8′	-	-	8′	6	1	7	624.5″
53′	5′	8′	8′	8′	8′	8′	-	-	8′	6	1	7	636.5″
54′	6′	8′	8′	8′	8′	8′	-	-	8′	6	1	7	648.5″
55′	7′	8′	8′	8′	8′	8′	-	-	8′	6	1	7	660.5″
56′	8′	8′	8′	8′	8′	8′	-	-	8′	6	1	7	672.5″
57′	5′	6′	6′	8′	8′	8′	8′	-	8′	7	1	8	684.5″
58′	4′	6′	8′	8′	8′	8′	8′	-	8′	7	1	8	696.5″
59′	5′	6′	8′	8′	8′	8′	8′	-	8′	7	1	8	708.5″
60′	4′	8′	8′	8′	8′	8′	8′	-	8′	7	1	8	720.5″
61′	5′	8′	8′	8′	8′	8′	8′	-	8′	7	1	8	732.5″
62′	6′	8′	8′	8′	8′	8′	8′	-	8′	7	1	8	744.5″
63′	7′	8′	8′	8′	8′	8′	8′	-	8′	7	1	8	756.5″
64′	8′	8′	8′	8′	8′	8′	8′	-	8′	7	1	8	768.5″
65′	5′	6′	6′	8′	8′	8′	8′	8′	8′	8	1	9	780.5″
66′	4′	6′	8′	8′	8′	8′	8′	8′	8′	8	1	9	792.5″
67′	5′	6′	8′	8′	8′	8′	8′	8′	8′	8	1	9	804.5″
68′	4′	8′	8′	8′	8′	8′	8′	8′	8′	8	1	9	816.5″
69′	5′	8′	8′	8′	8′	8′	8′	8′	8′	8	1	9	828.5″
70′	6′	8′	8′	8′	8′	8′	8′	8′	8′	8	1	9	840.5″
71′	7′	8′	8′	8′	8′	8′	8′	8′	8′	8	1	9	852.5″
72′	8′	8′	8′	8′	8′	8′	8′	8′	8′	8	1	9	864.5″

	FIXTURE LENGTH	MOUNTING CENTERS	
	STARTER	STARTER	JOINER/ENDER
3′	36.0″	35.5″	-
4′	48.0″	47.5″	-
5′	60.0″	59.5″	-
6′	72.0″	71.5″	72.0″
7′	84.0″	83.5″	-
8′	96.0″	95.5″	96.0″