

### PRODUCT FEATURES

#### COMPACT FIXTURE HOUSING

Width: 2.0" Height: 4.0"

#### INDIRECT ILLUMINATION

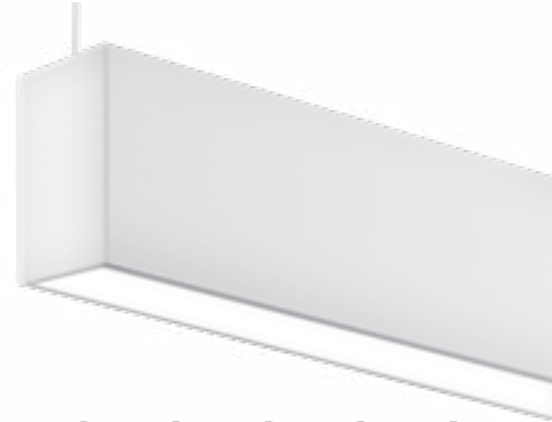
We offer three indirect illumination options. Standard Lambertian can be upgraded to Batwing Up (BW) or Asymmetric Up (AU)

#### ONE-PIECE EXTRUDED ALUMINUM HOUSING

Housing ensures straighter rows and consistent lens retention

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

#### UP TO 152.3 LUMENS PER WATT AT 90 CRI



### ORDERING GUIDE EX: 2SID - 20 - VHU - MD - 35 - UNV - T1 - WH - C90

SERIES	LENGTH	UPPER OUTPUT	DIRECT OUTPUT	CCT	VOLTAGE	MOUNTING	COLOR
2SID	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' 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 <sup>4</sup> 250 LM/FT	VLD 250 LM/FT			JB Junction Box	
		CU Custom	CD Custom				

#### ORDERING NOTES

- EM NOT AVAILABLE WITH 347V.
- EM AND SENSORS ARE NOT AVAILABLE WITH 2' AND 3' FIXTURES.
- 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).
- VLU NOT AVAILABLE ON 2 FT LENGTHS.

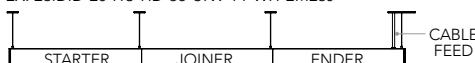
### OPTIONS

CRI	SUSPENSION	INTEGRATED CONTROLS <sup>2, 3, 5</sup>	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			

FOR INDIVIDUALS	FOR LINEAR RUNS <sup>6, 7</sup>
EM <sup>2</sup> Emergency Battery CEC LISTED	EM EMERGENCY BATTERY PACK QUANTITY PER RUN <sup>6</sup> POSITION IN RUN <sup>7</sup>
EC Emergency Circuit	EC EMERGENCY CIRCUIT QUANTITY PER RUN <sup>6</sup> POSITION IN RUN <sup>7</sup>

#### OPTIONS NOTES

- CONSULT FACTORY FOR COMPONENT OR SYSTEM NOT LISTED.
- EM AND EC QUANTITY IS NOT TO EXCEED NUMBER OF DISCRETE FIXTURE SECTIONS IN A ROW.
- 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: 2SIDID-20-HU-HD-35-UNV-T1-WH-EM2SJ



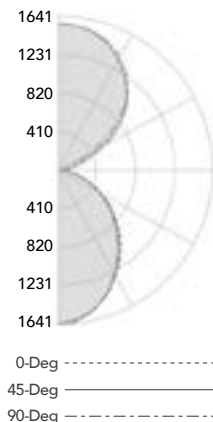
## PHOTOMETRICS

### 2SID-04-HU-HD-35-UNV-XX-C90

Total Lumens: 8,088  
Ratio: 50% Up & 50% Down  
Wattage: 61.52  
Efficacy: 131.5 LM/W  
Fixture Length: Four Feet

#### Zonal Lumen Summary

Zone	Lumens	% Fixt
0 - 30	1206.8	14.9
0 - 40	1923.4	23.8
0 - 60	3247.4	40.2
0 - 90	4054.6	50.1
90 - 180	4033.0	49.9
0 - 180	8087.6	100.0

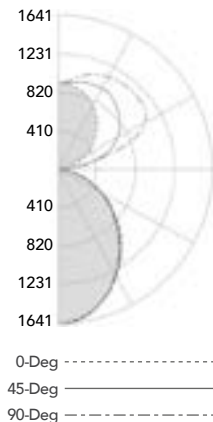


### 2SID-04-HU-HD-35-UNV-XX-C90-BW

Total Lumens: 7,928  
Ratio: 50% Up & 50% Down  
Wattage: 61.52  
Efficacy: 128.9 LM/W  
Fixture Length: Four Feet

#### Zonal Lumen Summary

Zone	Lumens	% Fixt
0 - 30	1206.8	15.2
0 - 40	1923.4	24.3
0 - 60	3247.4	41.0
0 - 90	4054.7	51.1
90 - 180	3873.5	48.9
0 - 180	7928.2	100.0

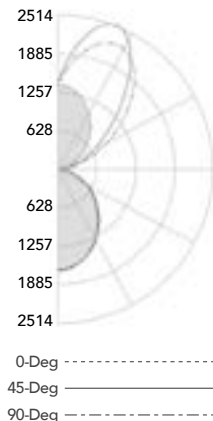


### 2SID-04-HU-HD-35-UNV-XX-C90-AU

Total Lumens: 7,939  
Ratio: 50% Up & 50% Down  
Wattage: 61.52  
Efficacy: 129.0 LM/W  
Fixture Length: Four Feet

#### Zonal Lumen Summary

Zone	Lumens	% Fixt
0 - 30	1206.8	15.2
0 - 40	1923.4	24.2
0 - 60	3247.4	40.9
0 - 90	4054.6	51.1
90 - 180	3884.0	48.9
0 - 180	7938.6	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	19.3	17.2	14.7	12.2	10.1
Lumens/ft	2550	2302	2067	1780	1538
LPW	132.1	134.2	140.4	145.9	152.3

	HU-VHD	HU-HD	HU-MD	HU-LD	HU-VLD
Watts/ft	17.5	15.4	13.0	10.4	8.3
Lumens/ft	2270	2022	1787	1500	1258
LPW	129.5	131.5	138.0	143.8	151.0

	MU-VHD	MU-HD	MU-MD	MU-LD	MU-VLD
Watts/ft	16.0	13.8	11.4	8.9	6.8
Lumens/ft	2004	1755	1521	1234	992
LPW	125.4	126.9	133.3	138.9	146.2

	LU-VHD	LU-HD	LU-MD	LU-LD	LU-VLD
Watts/ft	14.6	12.5	10.0	7.5	5.4
Lumens/ft	1773	1524	1290	1003	761
LPW	121.4	122.4	128.6	133.7	140.8

	VLU-VHD	VLU-HD	VLU-MD	VLU-LD	VLU-VLD
Watts/ft	13.2	11.0	8.6	6.1	4.0
Lumens/ft	1524	1276	1041	754	512
LPW	115.9	116.0	121.4	124.6	129.6

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

	VHU-VHD	VHU-HD	VHU-MD	VHU-LD	VHU-VLD
Watts/ft	19.3	17.2	14.7	12.2	10.1
Lumens/ft	2499	2251	2016	1729	1487
LPW	129.5	131.2	136.9	141.7	147.2

	HU-VHD	HU-HD	HU-MD	HU-LD	HU-VLD
Watts/ft	17.5	15.4	13.0	10.4	8.3
Lumens/ft	2230	1982	1747	1460	1218
LPW	127.2	128.9	134.9	140.0	146.2

	MU-VHD	MU-HD	MU-MD	MU-LD	MU-VLD
Watts/ft	16.0	13.8	11.4	8.9	6.8
Lumens/ft	1974	1726	1491	1204	962
LPW	123.5	124.8	130.7	135.6	141.9

	LU-VHD	LU-HD	LU-MD	LU-LD	LU-VLD
Watts/ft	14.6	12.5	10.0	7.5	5.4
Lumens/ft	1752	1504	1269	982	740
LPW	120.0	120.8	126.6	131.0	137.1

	VLU-VHD	VLU-HD	VLU-MD	VLU-LD	VLU-VLD
Watts/ft	13.2	11.0	8.6	6.1	4.0
Lumens/ft	1513	1265	1030	743	501
LPW	115.1	115.0	120.2	122.9	126.9

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

	VHU-VHD	VHU-HD	VHU-MD	VHU-LD	VHU-VLD
Watts/ft	19.3	17.2	14.7	12.2	10.1
Lumens/ft	2502	2254	2019	1732	1490
LPW	129.7	131.4	137.1	142.0	147.6

	HU-VHD	HU-HD	HU-MD	HU-LD	HU-VLD
Watts/ft	17.5	15.4	13.0	10.4	8.3
Lumens/ft	2233	1985	1750	1463	1221
LPW	127.4	129.0	135.1	140.3	146.6

	MU-VHD	MU-HD	MU-MD	MU-LD	MU-VLD
Watts/ft	16.0	13.8	11.4	8.9	6.8
Lumens/ft	1976	1728	1493	1206	964
LPW	123.7	124.9	130.9	135.8	142.2

	LU-VHD	LU-HD	LU-MD	LU-LD	LU-VLD
Watts/ft	14.6	12.5	10.0	7.5	5.4
Lumens/ft	1754	1505	1271	984	742
LPW	120.1	120.9	126.7	131.2	137.3

	VLU-VHD	VLU-HD	VLU-MD	VLU-LD	VLU-VLD
Watts/ft	13.2	11.0	8.6	6.1	4.0
Lumens/ft	1514	1266	1031	744	502
LPW	115.1	115.1	120.2	123.0	127.1

## LUMEN ADJUSTMENT CALCULATIONS

LUMEN MULTIPLIER	
3000K	0.995
3500K	1.000
4000K	1.023

### Example: HU-MD Output, 3000K at 90CRI

Total Light Output: 7148 x 0.995 = 7112 lm  
Total Light Output Per Foot: 1787 x 0.995 = 1778 lm/ft  
Efficacy = 1778 / 13.0 = 136.7 lm/W

## OPERATION

### Light Engine:

The 2SID is available in 3000K, 3500K and 4000K CCT all within a 3-Step MacAdam Ellipse and has a standard CRI of 90+.

### Direct 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 2SID 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.

### 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:

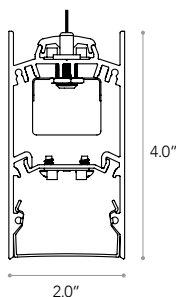
2 week lead time for White (WH) or Black (BLK) finish orders up to 1000 feet. Lead time for orders greater than 1000 linear feet will be determined at time of order.

### Manufactured in the USA:

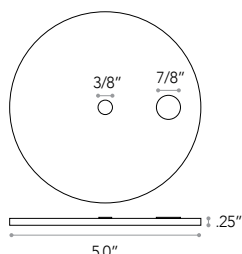
All ALL Luminaires and Components (with the exception of our LED boards and drivers) are proudly manufactured and assembled in the USA.

## MOUNTING DETAILS

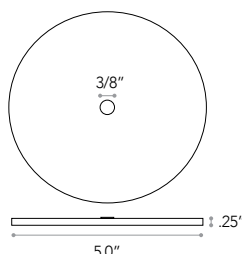
### SECTION



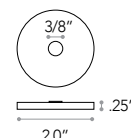
### SINGLE FEED CANOPY



### JB HANGER CANOPY



### HANGER CANOPY (T1, T9, SC, HC)



## 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 minimalist 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 2SID is available in a minimum 2-foot (nominal) length with additional 1-foot increments available ( $\pm 0.030$ ",  $\pm 0.50$ "). 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 2SID is available for mounting upon any ceiling type, additional mounting hardware available by others.

### Exterior Finish:

The 2SID is available in White and Black polyester powder coat finish to ensure durability.

### Suspension Components:

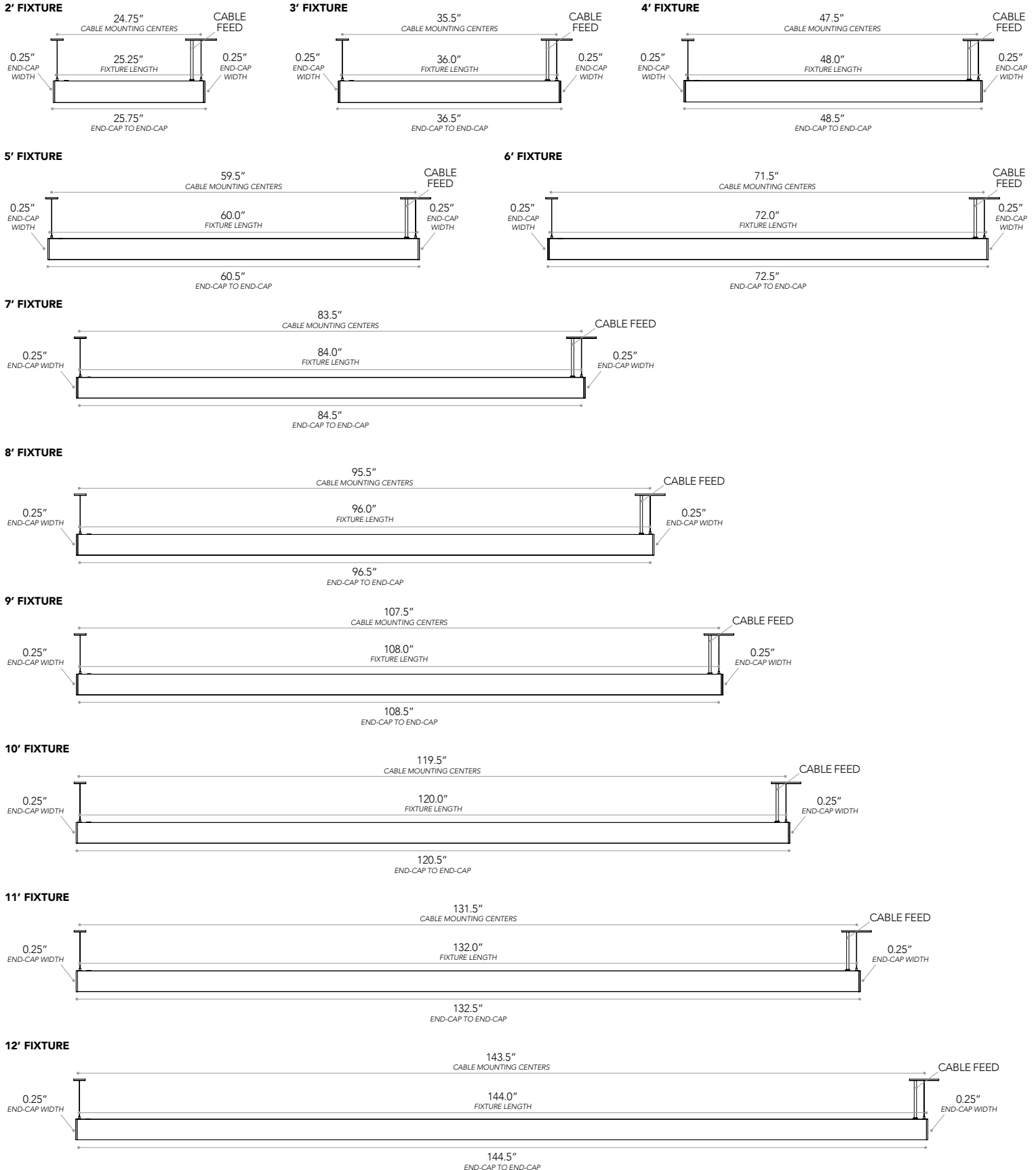
The Hidden Connect design recesses or hides attachment hardware at the fixture. Fixtures are suspended by 1/16" galvanized aircraft cable. Cables are attached to the ceiling suspension point with a 1/4-20 threaded ceiling cable barrel that incorporates a threaded ring to support the feed/hanger canopy 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:

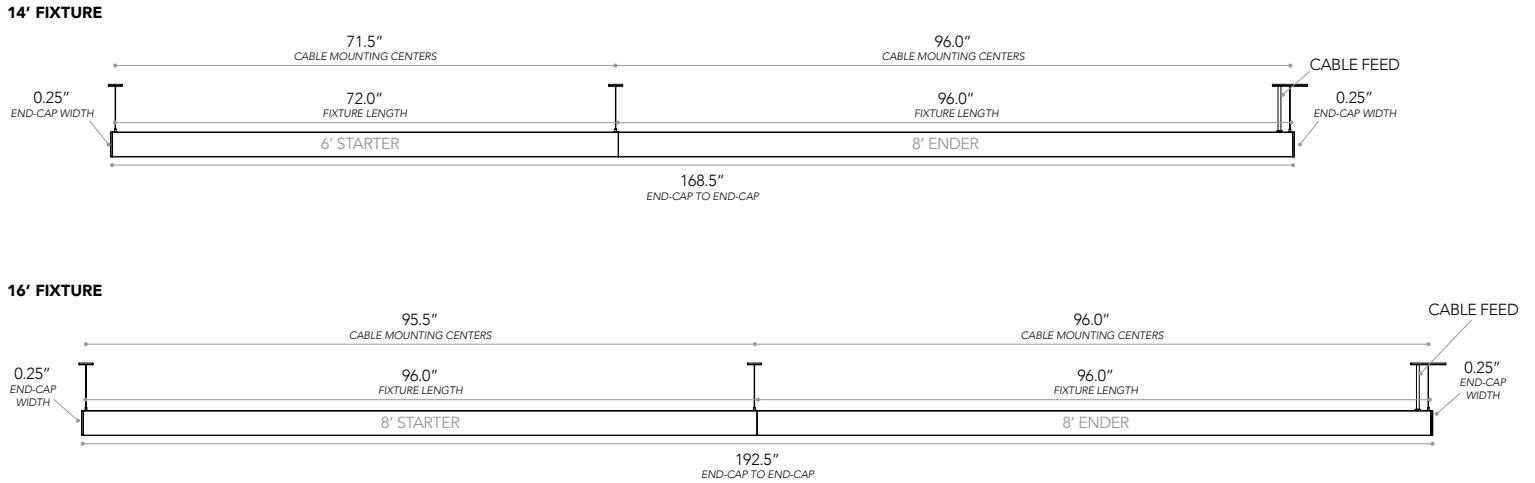
The 2SID is available with optional integrated controls. Sensors are conveniently designed to mount in aperture and are located at the power feed end of each fixture. For runs, each fixture section will be supplied with a discrete sensor that will control that specific section. Philips EasySense is standard 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)

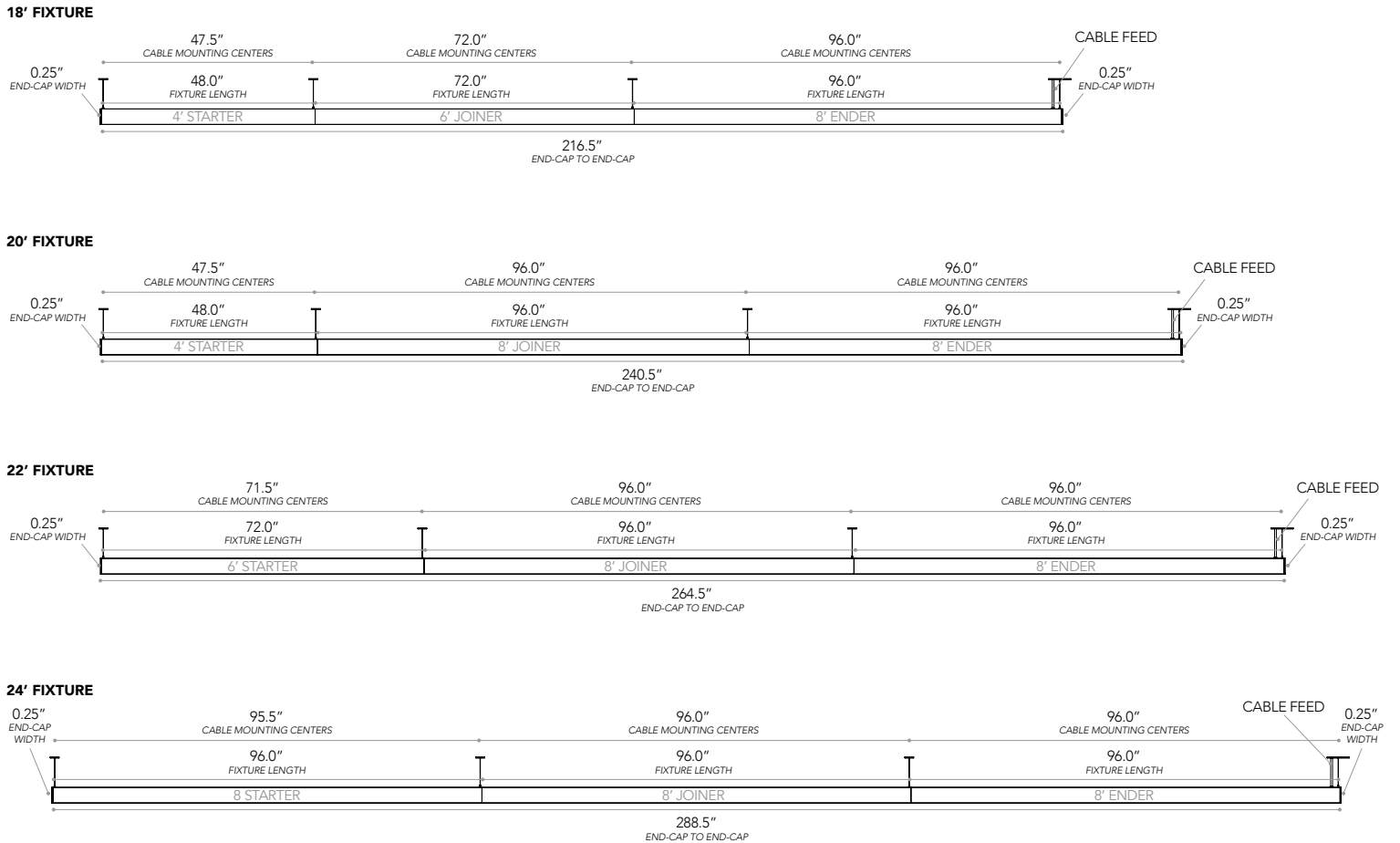
**FIXTURE ROW LAYOUT: SINGLE UNIT** 2' - 3' - 4' - 5' - 6' - 7' - 8' - 9' - 10' - 11' - 12'



## FIXTURE ROW LAYOUT: TWO UNITS 14' - 16'



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



## 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"

