



DATE

PROJECT

COMMENTS

CERTIFICATIONS













5SID SUSPENDED

INDIRECT / DIRECT

AN EXTENSION OF OUR 5-INCH LINEAR FAMILY SERIES

FEATURES

HOUSING

1. ARCHITECTURAL DETAILS

Provide a clean architectural appearance with the semi-recessed connection point between cable and fixture reduces 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 DIRECT LENS High efficiency diffuser designed to minimize glare and provide uniform light distribution.

4. INDIRECT DISTRIBUTION

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

5. VERSĂTILE LIGHT ENGINE

Multiple lumen intensities provide the correct level of illumination within each space.

ELECTRICAL

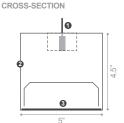
OPTIONAL INTEGRAL EMERGENCY BATTERY PACK

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 159.0 LUMENS PER WATT AT 90 CRI

LIGHT DISTRIBUTION



SAMPLEPARTNUMBER:5SID-24-MU-MD-30-UNV-T1-WH-C90

ORDERING

OPTIONS

SERIES	LENGTH		UPPER	OUTPU	JT		DIRECT	OUTP	UT		ССТ	V	DLTAGE		MOUNTING	FI	NISH
5SID																	
	XXX FT	VHU	1250 LM/FT	LU	500 LM/FT	VHD	1250 LM/FT	LD	500 LM/FT	30	3000K	UNV	120-277V	T1	1" T-Grid	WH	White
	1' Increments EX: 20' = 20	HU	1000 LM/FT	VLU⁴	250 LM/FT	HD	1000 LM/FT	VLD	250 LM/FT	35	3500K	3471	347V	Т9	9/16" T-Grid	BLK	Black
		MU	750 LM/FT	CU	Custom	MD	750 LM/FT	CD	Custom	40	4000K			sc	Screw Slot Grid		
ORDERING N	NOTES													ЦС	Hard Cailing		
1 EM not avail	1 EM not available with 347V.																
2 EM and sensors are not available with 2' and 3' fixtures. JB Junction Box																	
3 For individu	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)								run, ex. 2 sens	ors	are installed	d in a 16	run (1 sensor	in eac	h 8' fixture)		

4 VLU is not available on 2' lengths

CRI SUSPENSION **OPTICAL** INTEGRATED CONTROLS^{2, 3, 4} **CIRCUITING** C90 BLANK = LAMBERTIAN DOS Daylight Occupancy Sensor SS-U/D Separate Switching DALI DRIVER STANDARD SENSOR SS-U/D SEPARADS/DOWNWAR C90 90 CRI BLANK = 48" CABLE CB144 144" Cables

> CB96 96" Cables BW Batwing Up Black Canopy & Cord Asymmetric Up

FOR LINEAR RUNS^{5, 6} FOR INDIVIDUALS EC FΜ Emergency Battery EC Emergency Circuit EMERGENCY QUANTITY POSITION EMERGENCY QUANTITY POSITION EM^2 IN RUN CIRCUIT

OPTIONS NOTES

4 Consult factory for component or system not listed.

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

6 EM and EC position refers to which fixture in the run that will be powered by the EM/EC circuit. Position options: \$=Starter, J=Joiner, E=Ender, Ex: 55/ID-24-HU-HD-35-UNV-T1-WH-EM2SJ CABLE FEED

5SID SUSPENDED

INDIRECT / DIRECT















PHOTOMETRICS & ENERGY CHARTS

5SID-04-HU-HD-35-UNV-XX-C90 Indirect (Lambertian) / Direct (Lambertian) Light at 90 CRI, 3500K Total Lumens: 8,125 VHU-VHD VHU-HD VHU-MD VHU-LD VHU-VLD LU-VHD LU-HD LU-MD LU-LD LU-VLD Watts/ft 16.8 14 9 11.5 9.8 Ratio: 50% Up & 50% Down 13.2 Watts/ft 12.1 10.2 8.5 6.8 5.1 1174 Lumens/ft 2556 2311 2041 1793 1552 Lumens/ft 1779 1534 1263 1016 775 Wattage: 52.5 783 LPW 152.1 155.1 159.0 **LPW** 147.0 150.3 148.6 153.1 Efficacy: 155.0 LM/W 391 Fixture Length: Four Feet HU-VHD HU-HD HU-MD HU-LD HU-VLD VLU-VHD VLU-HD VLU-MD VLU-LD VLU-VLD **Zonal Lumen Summary** 8.0 Watts/ft 15.0 13.1 11.4 9.7 Watts/ft 10.7 8.8 5.4 3.6 7.1 391 Zone Lumens % Fixt Lumens/ft 2276 2031 1761 1513 1272 Lumens/ft 1530 1285 1014 767 526 LPW 151.4 159.2 **LPW** 143.6 146.8 0 - 30 1173.3 14.4 783 154.0 143.9 143.3 0 - 40 1888.0 23.2 1174 0 - 60 3240.3 39.9 MU-VHD MU-HD MU-MD MU-LD MU-VLD 0 - 90 4091.6 50.4 Watts/ft 13.5 11.6 90 - 180 4033.4 49.6 Lumens/ft 2010 1765 1494 1247 1006 0 - 180 8124.9 100.0 LPW 149.1 152.4 151.2 152.4 156.1 45-Deg 90-Deg -----Indirect (Batwing) / Direct (Lambertian) Light at 90 CRI, 3500K 5SID-04-HU-HD-35-UNV-XX-C90-B

Total Lumens: 7,965 Ratio: 50% Up & 50% Down 1173 Wattage: 52.5 782 Efficacy: 152.0 LM/W 391 Fixture Length: Four Feet **Zonal Lumen Summary** 391 Zone Lumens % Fixt 0 - 30 1173.3 14.7 782 0 - 40 1888.0 23.7 1173 0 - 60 3240.3 40.7 1565 0 - 90 4091.6 51.4 90 - 180 3873.8 48.6 0-Deg 0 - 180 7965.3 100.0 45-Deg

90-Deg

	ž	5	
	2	7	
2	1	L	
	V		
j	1	9	

indirect (Batwing) / Direct (Lambertian) Light a						
	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	
	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
	MU-VHD	MU-HD	MU-MD	MU-LD	MU-VLD
Watts/ft		MU-HD 11.6	MU-MD 9.8	MU-LD 8.2	6.4
Watts/ft Lumens/ft	13.5				

	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

	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

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

Total Lur	mens: 7,9	2514		
Ratio: 50)% Up &	1885	0	
Wattage	52.5	1257	J/K	
Efficacy:	152.0 LN	628	DIX	
Fixture L	ength: F	020		
Zonal Lu	ımen Su	13	N-/	
Zone	Lumens	% Fixt	628	
0 - 30	1173.3	14.7	1257	
0 - 40	1888.0	23.7	1885	200
0 - 60	3240.3	40.6	1000	
0 - 90	4091.6	51.3	2514	
90 - 180	3884.4	48.7	0-Deg	
0 - 180	7975.9	100.0	45-Deg —	

		,	•		, ,
	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
I DW	140.2	1510	150 1	151 0	155 1

Indirect (Asymmetric) / Direct (Lambertian) Light at 90 CRI, 3500K

	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

	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

	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

	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

Lumen Adjustment Calculations

LUMEN MULTIPLIERS								
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

90-Deg

5SID SUSPENDED

INDIRECT / DIRECT



















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.

Alianment/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"). 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 Hidden-Connect design recesses all attachment hardware (hanging cable and power cord) below the top plane of the housing to enable a sleek, clean finished look. Standard hanging hardware includes 1/16" diameter, galvanized steel aircraft cable with adjustable and lockable nickel-plated cable grippers and a white 18/5 S.J.T. power cord. The standard hardware includes a 60" power cord and 54" aircraft cables to accommodate a 48" mounting distance from the calling. Longer hanging cables and nower cords are available as an from the ceiling. Longer hanging cables and power cords are available as an option. Ceiling type options are "T1" = T-Grid, "T9" = T-Grid, "SC" = Screw Slot Grid, "HC" = Hard Ceiling or "JB" = J-Box mount. Ceiling canopy provided. All Lumato suspension hardware is tested and listed to UL1598 requirements for loading/fixture support.

Exterior Finish:

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

Suspension Components:

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 = 5" O.D.). Cable lengths can be specified for 48", 96" and 144" suspension lengths.

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 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 5SID is available in 3000K, 3500K and 4000K CCT all within a 3-Step MacAdam Ellipse and has a standard CRI of 90+.

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.

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

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 on Run" refers to which fixture in the run that will contain the battery.

Position entions are Starter (S). Joiner (J), or Ender (E). For example, a 24' 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. 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'

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.

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.

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.

5SID SUSPENDED

INDIRECT / DIRECT











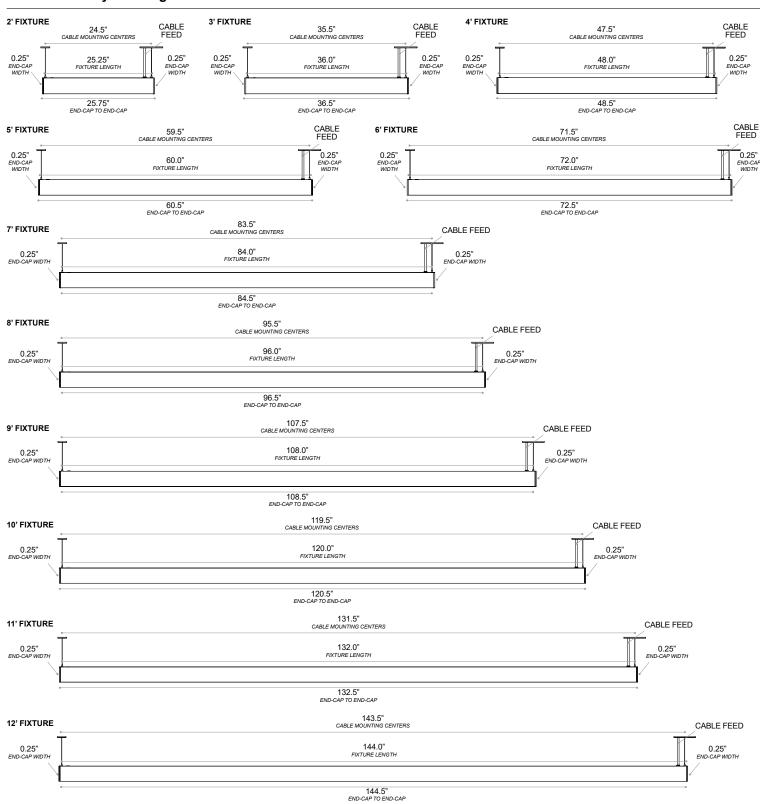








Fixture Row Layout: Single Unit 2' - 3' - 4' - 5' - 6' - 7' - 8' - 9' - 10' - 11' - 12'



5SID SUSPENDED INDIRECT / DIRECT













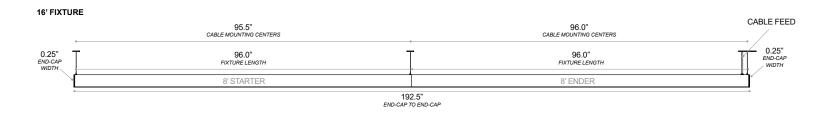




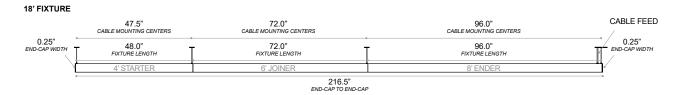


Fixture Row Layout: Two Units 14' - 16'

14' FIXTURE 71.5" CABLE MOUNTING CENTERS 96.0" CABLE MOUNTING CENTERS CABLE FEED 0.25" END-CAP WIDTH 72.0" FIXTURE LENGTH 96.0" FIXTURE LENGTH 0.25" END-CAP WIDTH 6' STARTER 8' ENDER 168.5" END-CAP TO END-CAP



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

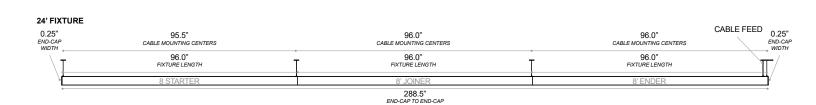




240.5" END-CAP TO END-CAP



264.5" END-CAP TO END-CAP



5SID SUSPENDED INDIRECT / DIRECT

















Fixture Row Components

	FIXTURE LENGTHS STARTER JOINER ENDER										FEED	HANGER	
RUN LENGTH	STARTER									JOINER	KITS	KITS	END-CAP TO END-CAP
	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"
	6'		8'						8,			5	
38'		8'		8'	-	-	-	-		4	1		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"
01													
58'	Λ',	6'	R'	, g,	- R'	S,	N'						606.5"
58' 59'	4' 5'	6' 6'	8' 8'	8'	8'	8'	8'	-	8'	7	1	8	696.5" 708.5"

	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"			

