



## PRODUCT FEATURES

### MINIMAL RECESSED HEIGHT

Width: 2.0" Height: 3.5"

### ONE-PIECE EXTRUDED ALUMINUM HOUSING

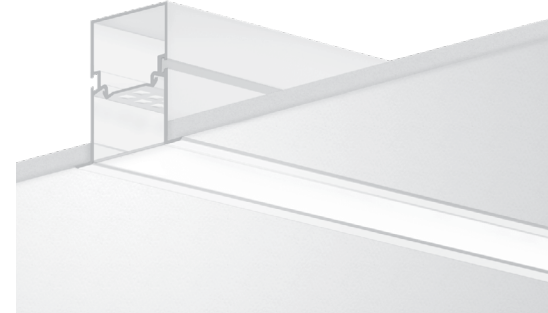
Ensures Straighter Rows and Consistent Lens Retention

### MULTIPLE CEILING SYSTEMS

Engineered to be Installed within Multiple Ceiling Applications

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

### UP TO 122 LUMENS PER WATT



## ORDERING GUIDE EX: 2R - 04 - MD - 30 - UNV - T1 - WH - EM[1]

SERIES	LENGTH	OUTPUT	CCT	VOLTAGE	MOUNTING	FINISH
<b>2R</b>						
<b>XX</b> FEET 2' INCREMENTS	<b>HD</b> 1000 LM/FT	<b>30</b> 3000K	<b>UNV</b> 120V-277V	<b>T1</b> 1" T GRID	<b>WH</b> WHITE	
OVERALL FIXTURE LENGTH EX: 20' = 20	<b>MD</b> 750 LM/FT	<b>35</b> 3500K	<b>347</b> 347V	<b>T9</b> 9/16" T GRID	<b>BLK<sup>1</sup></b> BLACK	
	<b>LD</b> 500 LM/FT	<b>40</b> 4000K		<b>TG</b> 1" T-TEG GRID	<sup>1</sup> WHITE FEED CORD & COVER PLATE STANDARD; SEE OPTIONS FOR BLACK FINISH	
	<b>CD</b> CUSTOM DOWN EX: CD1250=1250LM/FT			<b>TG9</b> 9/16" T-TEG GRID		
				<b>SC</b> SCREW SLOT GRID		
				<b>OF</b> OVERLAPPING FLANGE		
				<b>SF</b> SPACKLE FLANGE		

**NOTES**  
SEE PAGE 5 FOR ROW LAYOUTS AND MOUNTING DIMENSIONS.  
ALL FIXTURES ARE SUPPLIED WITH 0-10V 1% DIMMING DRIVERS STANDARD UNLESS SPECIFIED DIFFERENTLY IN OPTIONS SECTION.  
MAXIMUM CUSTOMIZABLE LUMEN OUTPUT IS 1400 LM/FT.

**OPTIONS NOTES**  
UNITS WITH EC/EM PACKS QUANTITY MUST BE THE SAME OR LESS THAN THE TOTAL RUN FIXTURE COUNT. NOT ALL OPTIONS ARE AVAILABLE WITH OTHER OPTIONS.  
<sup>2</sup>ONE SENSOR PER FIXTURE  
<sup>3</sup>SENSOR COMPONENTS SUPPLIED BY OTHERS.  
<sup>4</sup>NOT AVAILABLE IN 2' FIXTURES.  
<sup>5</sup>PLEASE CONTACT FACTORY FOR CONFIGURATION.

## OPTIONS

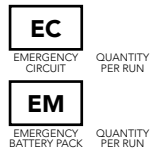
### DIMMING & INTEGRATED CONTROLS<sup>2</sup>

### BLANK = STANDARD 0-10V 1% DIMMING

0-10V	Lutron
<b>ELO1</b> 0-10V 0.1% ELDOLED	<b>LDE1</b> ECOSYSTEM LDE1
<b>DALI</b>	<b>Integrated Controls</b>
<b>OSD</b> OSRAM DEXAL	<b>OS</b> OCCUPANCY SENSOR
<b>SID</b> SIGNIFY DALI	<b>DOS</b> OCCUPANCY & DAYLIGHT SENSOR
<b>ELD01</b> 0.1% ELDOLED	<b>LVI</b> LUTRON VIVE
	<b>ENL<sup>3</sup></b> ENLIGHTENED

### ADD OPTIONS

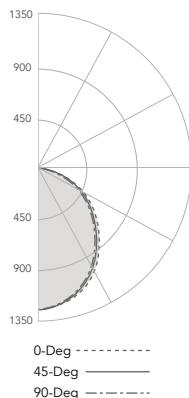
<b>EM<sup>4</sup></b> EMERGENCY BATTERY PACK (ADD QUANTITIES ON THE RIGHT)	<b>HE</b> HIGH EFFICIENCY
<b>EC</b> EMERGENCY CIRCUIT (ADD QUANTITIES ON THE RIGHT)	<b>CP</b> CHICAGO PLENUM
<b>LE</b> LOWER ILLUMINATED EDGE	<b>SP<sup>5</sup></b> SPECIAL PRODUCT CONFIGURATION



## PHOTOMETRICS

### 2R-04-MD-30-T1-WH

Total Lumens: 3,066  
Ratio: 0% Up and 100% Down  
Wattage: 28.90  
Efficacy: 106.1 (Lumens Per Watt)  
Fixture Length: Four Feet

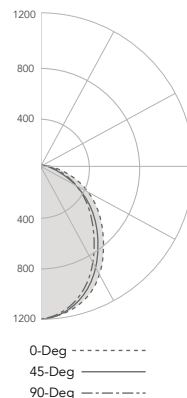


### ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixt
0 - 30	928	30.3
0 - 40	1477	48.1
0 - 60	2482	80.9
0 - 90	3067	100.0
90 - 180	0	0.0
0 - 180	3067	100.0

### 2R-04-MD-30-T1-WH-LE

Total Lumens: 2,976  
Ratio: 0% Up and 100% Down  
Wattage: 28.40  
Efficacy: 104.8 (Lumens Per Watt)  
Fixture Length: Four Feet



### ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixt
0 - 30	871	39.3
0 - 40	1379	46.3
0 - 60	2291	77.0
0 - 90	2849	95.8
90 - 180	126	4.2
0 - 180	2975	100.0

## ENERGY CONSUMPTION

WATTS PER LINEAR FOOT

### SYMMETRICAL DOWN LIGHT

	H:1000	M:750	L:500
<b>WATTS/FT</b>	9.55	7.23	4.73
<b>LUMENS/FT</b>	1022	767	511
<b>LUMENS/W</b>	107	106	108

### SYMMETRICAL DOWN LIGHT - HE OPTION

	H:1000	M:750	L:500
<b>WATTS/FT</b>	8.85	6.55	4.25
<b>LUMENS/FT</b>	1036	778	521
<b>LUMENS/W</b>	117	120	122

## OPERATION

### Light Engine:

The 2R is available in 3000K, 3500K & 4000K CCT all within a 2.5-Step MacAdam Ellipse and has a standard CRI of 80+.

### Optics:

The back-lit extruded acrylic lens ensures high efficiency light output, in a minimal form factor for a clean, evenly illuminated lower surface with minimal glare. The optional Lower Illuminated Edge lens adds an elegant accent and reduces the side 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 2R comes standard with 0-10V dimming down to 1%.

### Emergency Battery Pack:

UL Listed 924 Emergency System has been engineered to exceed UL Minimum Safety Standards. Fixture/rows will be supplied with four wire line volt & two wire low volt feed wires. Normal fixture drivers will be wired to "black" switched hot lead with a "red" un-switched through-wire wired to EM battery pack units "qty to be specified" in nomenclature string. Contractor will determine which fixture is the main feed point and terminate fixture leads as appropriate. For most fixtures, the entire direct portion of the fixture will be illuminated by the EM Battery Pack. For 10' High-Output and 12' Medium & High-Output only the first 8' of the direct portion of the fixture will be illuminated by the EM Battery Pack.

### Emergency Circuit:

Emergency Circuit fixtures are engineered so that the entire fixture is wired to the emergency circuit. Row Fixtures are constructed with an extra Hot and Neutral through wire. Emergency Circuit always powers the longest fixtures in the run first. "EC Quantity" refers to the number of fixtures in the run that are wired to the emergency circuit. For example, a 20' run with EC2 selected will be shipped as (2) 8' fixtures wired to the emergency circuit and (1) 4' fixture wired to the normal circuit. Contractor is responsible for designating the feed location and terminating fixture leads appropriately.

## GENERAL

### Warranty:

Ten (10) Year limited warranty from date of shipment

### Lumen Maintenance:

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

### Certifications

All Luminaires are UL and cUL listed, approved for Dry/Damp locations. All EM Units are UL 924 listed.

### Shipping

2-Week lead time for orders up to 1000 Linear Feet.  
Orders Greater than 1,000' to be determined at time of order.

## 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 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.

### Lengths:

The 2R is available in a minimum 2-foot (nominal) length with additional 2-foot increments available. Longer fixture rows are available and will be configured per ALL factory specifications; typical rows are configured with 4-foot, 6-foot & 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 2R is designed for lay-in grid ceilings or "Hard" sheet rock construction. Hard ceiling installations can be supplied for overlapping flange or "Trimless" spackle flange types.

### Exterior Finish:

The 2R is available in White polyester powder coat finish to ensure durability.

### Integrated Controls:

The 2R 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.

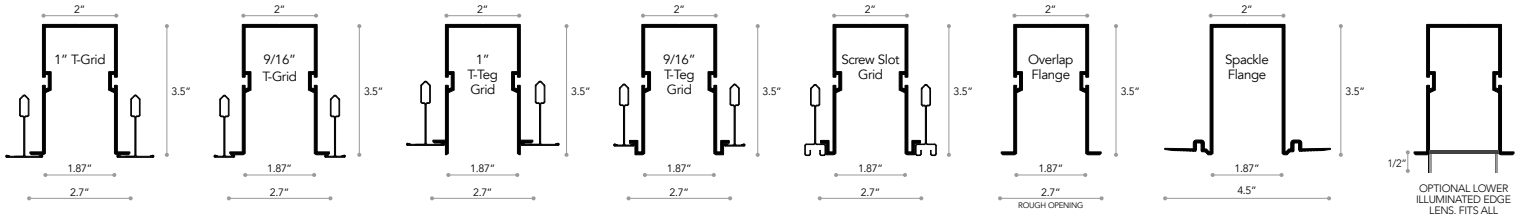
### Manufactured in the USA

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

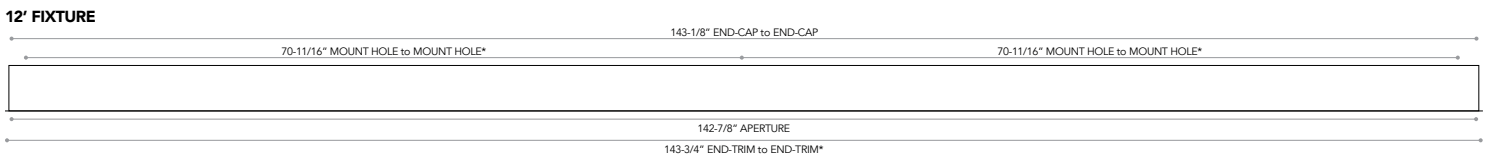
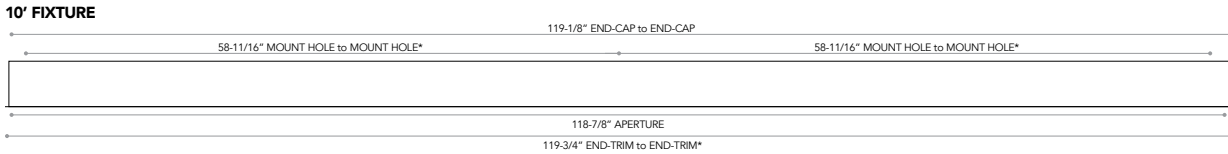
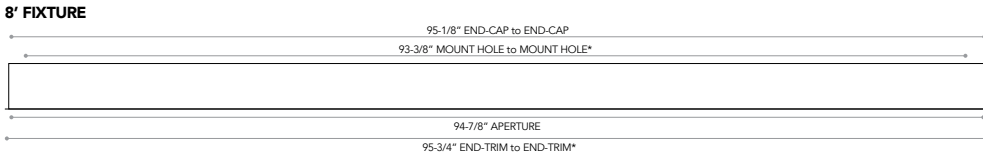
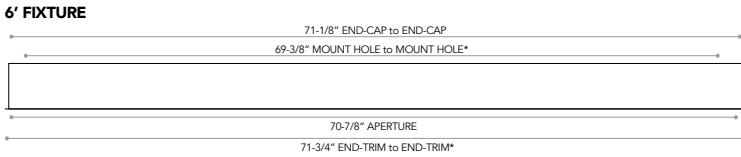
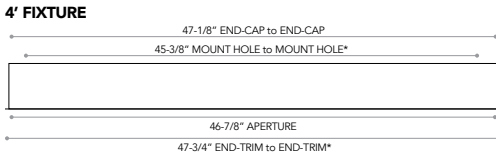
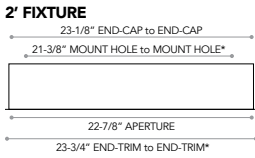
### On Site Installation Notes:

Fixture/rows will be supplied with the appropriate hardware kits to join fixtures together for specified row(s) length. End trim kits will also be supplied as required per row specifications. Please see row chart for grid specific length needed for each row length. Break off notches provided to eliminate need to cut to length. Joiner kits for "grid" applications are to be assembled to the outside of the fixture housing. "See assembly instructions" joiner kits for overlapping flange applications are to be assembled to inside of the fixture housing.

**MOUNTING DETAILS**



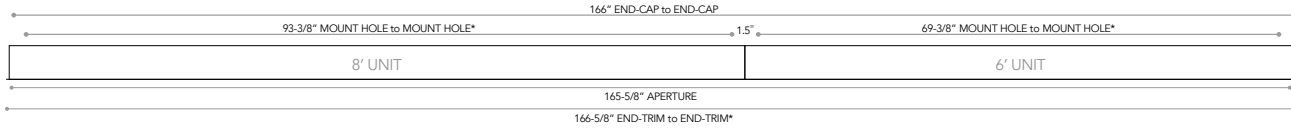
**FIXTURE ROW LAYOUT: SINGLE UNIT 2' - 4' - 6' - 8' - 10' - 12'**



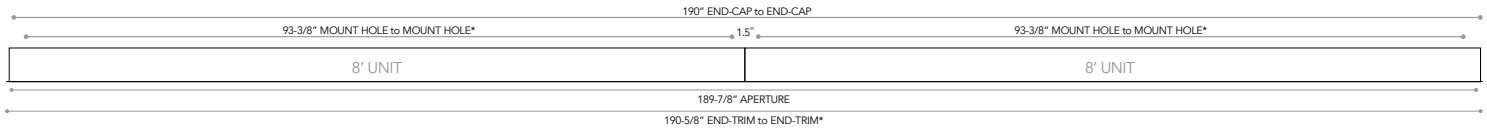
\* Does not apply to the Spackle Flange fixtures.

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

**14' FIXTURE**

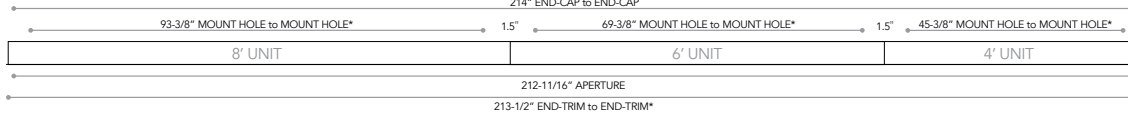


**16' FIXTURE**

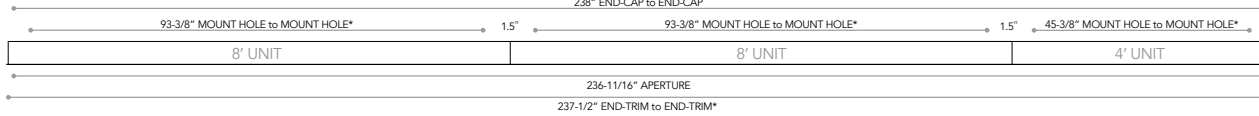


**FIXTURE ROW LAYOUT: THREE UNITS 18' - 20' - 22' - 24'**

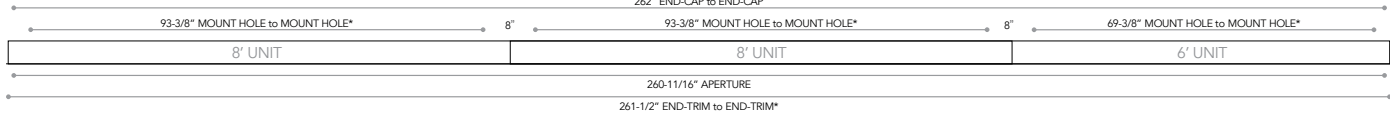
**18' FIXTURE**



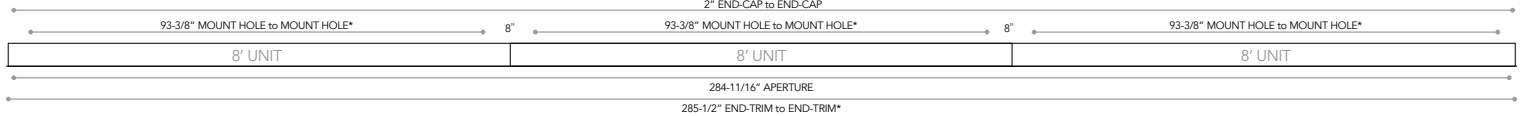
**20' FIXTURE**



**22' FIXTURE**



**24' FIXTURE**



\* Does not apply to the Spackle Flange fixtures.

FIXTURE ROW COMPONENTS

ROW LENGTH	2'	4'	6'	8'	10'	12'	JOIN KITS	APERTURE FLANGE & GRID	END-CAP TO END-CAP FLANGE & GRID	END-TRIM TO END-TRIM			END-TRIM LENGTH GRID (EACH SIDE)	CEILING CUT-OUT LENGTH
										OVERLAP FLANGE	GRID	SPACKLE FLANGE		
2'	1	-	-	-	-	-	-	22-7/8"	23-1/4"	23-3/4"	23-3/4"	25-3/4"	-	23-1/2"
4'	-	1	-	-	-	-	-	46-7/8"	47-1/4"	47-3/4"	47-3/4"	49-3/4"	-	47-1/2"
6'	-	-	1	-	-	-	-	70-7/8"	71-1/4"	71-3/4"	71-3/4"	73-3/4"	-	71-1/2"
8'	-	-	-	1	-	-	-	94-7/8"	95-1/4"	95-3/4"	95-3/4"	97-3/4"	-	95-1/2"
10'	-	-	-	-	1	-	-	118-7/8"	119-1/4"	119-3/4"	119-3/4"	121-3/4"	-	119-1/2"
12'	-	-	-	-	-	1	-	142-7/8"	143-1/4"	143-3/4"	143-3/4"	145-3/4"	-	143-1/2"
14'	-	-	1	1	-	-	1	165-7/8"	166-1/4"	166-3/4"	167-3/4"	168-3/4"	1-00"	167-1/8"
16'	-	-	-	2	-	-	1	189-3/4"	190-1/8"	190-5/8"	191-3/4"	192-5/8"	1-00"	191-00"
18'	-	1	1	1	-	-	2	212-11/16"	213-1/16"	213-9/16"	215-3/4"	215-9/16"	1-1/2"	213-15/16"
20'	-	1	-	2	-	-	2	236-11/16"	237-1/16"	237-9/16"	239-3/4"	239-9/16"	1-1/2"	237-15/16"
22'	-	-	1	2	-	-	2	260-11/16"	261-1/16"	261-9/16"	263-3/4"	263-9/16"	1-1/2"	261-15/16"
24'	-	-	-	3	-	-	2	284-5/8"	285-00"	285-1/2"	287-3/4"	287-1/2"	1-1/2"	285-7/8"
26'	-	1	1	2	-	-	3	307-5/8"	308-00"	308-1/2"	311-3/4"	310-1/2"	2-1/8"	308-7/8"
28'	-	1	-	3	-	-	3	331-5/8"	332-00"	332-1/2"	335-3/4"	334-1/2"	2-1/8"	332-7/8"
30'	-	-	1	3	-	-	3	355-5/8"	356-00"	356-1/2"	359-3/4"	358-1/2"	2-1/8"	356-7/8"
32'	-	-	-	4	-	-	3	379-5/8"	380-00"	380-1/2"	383-3/4"	382-1/2"	2-1/8"	380-7/8"
34'	-	1	1	3	-	-	4	402-1/2"	402-7/8"	403-3/8"	407-3/4"	405-3/8"	2-5/8"	403-3/4"
36'	-	1	-	4	-	-	4	426-1/2"	426-7/8"	427-3/8"	431-3/4"	429-3/8"	2-5/8"	427-3/4"
38'	-	-	1	4	-	-	4	450-1/2"	450-7/8"	451-3/8"	455-3/4"	453-3/8"	2-5/8"	451-3/4"
40'	-	-	-	5	-	-	4	474-1/2"	474-7/8"	475-3/8"	479-3/4"	477-3/8"	2-5/8"	475-3/4"
42'	-	1	1	4	-	-	5	497-7/16"	497-13/16"	498-5/16"	503-3/4"	500-5/16"	3-3/16"	498-11/16"
44'	-	1	-	5	-	-	5	521-7/16"	521-13/16"	522-5/16"	527-3/4"	523-5/16"	3-3/16"	522-11/16"
46'	-	-	1	5	-	-	5	545-7/16"	545-13/16"	546-5/16"	551-3/4"	548-5/16"	3-3/16"	546-11/16"
48'	-	-	-	6	-	-	5	569-7/16"	569-13/16"	570-5/16"	575-3/4"	572-5/16"	3-3/16"	570-11/16"
50'	-	1	1	5	-	-	6	592-3/8"	592-3/4"	593-1/4"	599-3/4"	595-1/4"	3-3/4"	593-5/8"
52'	-	1	-	6	-	-	6	616-3/8"	616-3/4"	617-1/4"	623-3/4"	619-1/4"	3-3/4"	617-5/8"
54'	-	-	1	6	-	-	6	640-3/8"	640-3/4"	641-1/4"	647-3/4"	643-1/4"	3-3/4"	641-5/8"
56'	-	-	-	7	-	-	6	664-3/8"	664-3/4"	665-1/4"	671-3/4"	667-1/4"	3-3/4"	665-5/8"
58'	-	1	1	6	-	-	7	687-1/4"	687-5/8"	688-1/8"	695-3/4"	690-1/8"	4-1/4"	688-1/2"
60'	-	1	-	7	-	-	7	711-1/4"	711-5/8"	712-1/8"	719-3/4"	714-1/8"	4-1/4"	712-1/2"
62'	-	-	1	7	-	-	7	735-1/4"	735-5/8"	736-1/8"	743-3/4"	738-1/8"	4-1/4"	736-1/2"
64'	-	-	-	8	-	-	7	759-1/4"	759-5/8"	760-1/8"	767-3/4"	762-1/8"	4-1/4"	760-1/2"
66'	-	1	1	7	-	-	8	782-1/8"	782-1/2"	783-00"	791-3/4"	785-00"	4-3/4"	783-3/8"
68'	-	1	-	8	-	-	8	806-1/8"	806-1/2"	807-00"	815-3/4"	809-00"	4-3/4"	807-3/8"
70'	-	-	1	8	-	-	8	830-1/8"	830-1/2"	831-00"	839-3/4"	833-00"	4-3/4"	831-3/8"
72'	-	-	-	9	-	-	8	854-1/8"	854-1/2"	855-00"	863-3/4"	857-00"	4-3/4"	855-3/8"

**Note 1**  
Flange Mount Fixtures have Mounting Holes 7/8" from End-Cap

**Note 2**  
Flange Mount Fixture Rows Consisting of Multiple Units (16'-72') have 1.5" O.C. Between Mounting Holes at Fixture Joints

**Note 3**  
For rows over 12', Score along the groove and break off the extra sections of the end caps to match the dimension in the table.

**Note 4**  
Ceiling cut-out width is 2-3/8" for Overlap Flange and 3-1/4" for Spackle Flange.

