



DATE

PROJECT

COMMENTS



## LINEAR EXPRESS PROGRAM OVERVIEW

### Next-Day Shipping Terms

- Orders Received by 1:00 PM Central (M-F)
- Less than 1,000 Linear Feet
- Standard Freight Terms Apply
- When Emailing an Order Request, Please Type "Linear Express" into the Subject Line
- Standard A.L.L. Products must be Ordered Separately

Finally, Architectural Linear Products that Move at the Speed of Today's Projects.

## PRODUCT FEATURES

### NEXT DAY SHIPMENT - 10-YEAR WARRANTY

#### FIELD SELECTABLE LUMEN OUTPUT

H = 1200 LM/FT M = 900 LM/FT L = 600 LM/FT

#### FIELD SELECTABLE COLOR TEMPERATURE

3000K - 3500K - 4000K

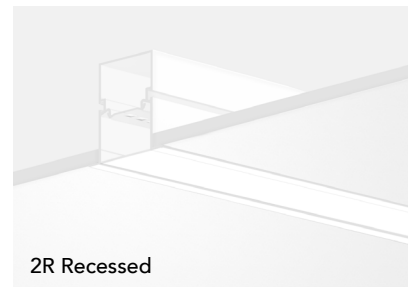
#### JOINABLE TO FORM CONTINUOUS LINEAR RUNS

#### 120/277VAC 0-10V 1% DIMMING WITH DIM TO OFF STANDARD

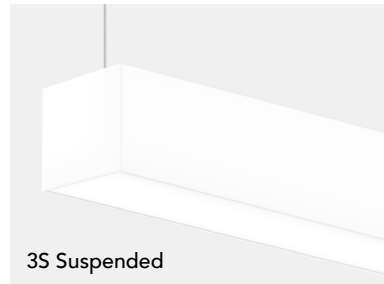
#### UP TO 120.5 LUMENS PER WATT



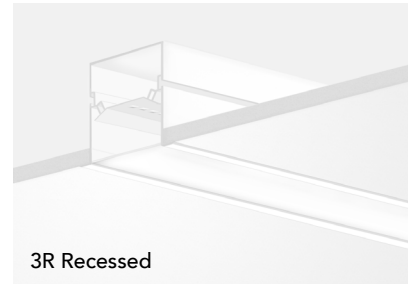
2S Suspended



2R Recessed



3S Suspended



3R Recessed

## ORDERING GUIDE EX: LE - 2S - 24 - UM - WH - EM[1]

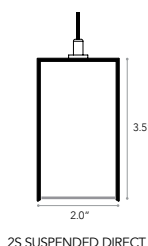
SERIES	FAMILY	LENGTH	MOUNTING	FINISH
<b>LE</b>				<b>WH</b>
<b>Suspended</b>	<b>Recessed</b>	<b>XX</b> FT 4" INCREMENTS EX: 4' = 004	<b>Suspended</b>	<b>WH</b> White
<b>2S</b> 2" Suspended	<b>2R</b> 2" Recessed		<b>UM</b> Universal Mount	<b>DC</b> Drop In Grid Ceiling
<b>3S</b> 3" Suspended	<b>3R</b> 3" Recessed		• T1 - 1" TEE	• T1 - 1" TEE
			• T9 - 9/16" TEE	• T9 - 9/16" TEE
			• JB - JUNCTION BOX	<b>OF</b> Overlapping Flange
			• HC - HARD CEILING	
			• TG - 1" TEG	
			• TG9 - 9/16" TEG	
			<b>SC</b> Screw Slot	
			<b>MOUNTING NOTES</b>	
			STANDARD HANGING LENGTH 48"	

## OPTIONS

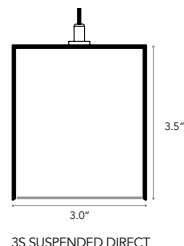
OPTIONS
<b>CB96</b> 96" FEED CORD
<b>CB144</b> 144" FEED CORD
<b>EM</b> *EMERGENCY BATTERY PACK (ADD QUANTITIES BELOW)
<b>EM</b>
EMERGENCY BATTERY PACK QUANTITY PER RUN
<b>OPTION NOTES</b>
EM UNITS OPERATE ENTIRE FIXTURE. TOTAL EM QUANTITY MUST BE EQUAL OR LESS THAN TOTAL FIXTURES IN RUN.

## MOUNTING DETAILS

### SUSPENDED

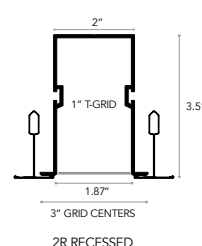


2S SUSPENDED DIRECT

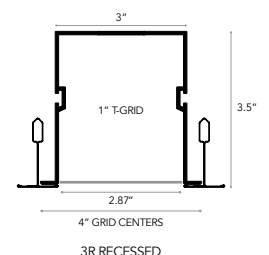


3S SUSPENDED DIRECT

### RECESSED



2R RECESSED



3R RECESSED

## OPERATION

### Patent:

U.S. Patent No. 11,751,302. Other patents pending.

### Light Engine:

Linear Express product family comes standard with the ability to select in the field between 3000K, 3500K, & 4000K CCT as well as 3 different lumen outputs at 80 CRI.

### 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.

### Electrical:

Two Channel Class 2 Output Selectable premium power supply, 120-277VAC input. Power factor >0.9. THD < 10%.

### Dimming:

0-10V 1% Dimming with Dim to Off Standard

### 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. EM Units illuminate the entire fixture.

## GENERAL

### Warranty:

Ten (10) Year limited warranty from date of shipment

### Lumen Maintenance:

Rated for 85% initial lumen output at 50,000 Hours of operation, operated at 25°C ambient temperature; per TM-21 Guidelines published by the Illuminating Engineering Society (IES).

### Certification

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

### Shipping

For any Linear Express order received by 1pm Central on a business day that is equal to or less than 1,000 linear feet, the order will ship the next business day. For any Linear Express order received after 1pm Central on a business day that is equal to or less than 1,000 linear feet, the order will ship within two business days. Linear Express orders that are greater than 1,000 linear feet (regardless of time received) may have variable lead times based on inventory levels.

## 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.

### Lengths:

The Linear Express product families are available in 4' and 8' (nominal) lengths. Longer fixture rows are available and will be configured per ALL factory specifications; rows are configured with 4-foot & 8-foot fixtures.

### Mounting Method/Hardware:

#### Recessed

- The Linear Express recessed families are designed to integrate with most standard 15/16" & 9/16" Tee Grid lay in ceiling systems, as well as, hard ceiling applications.

#### Suspended

- The Linear Express suspended families are available for mounting upon any ceiling type, additional mounting hardware available by others.
- 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 and Hanger canopies are 5" O.D. Cable lengths comes standard as 48". 96" & 144" Cable lengths are optional. Our UM mount kit integrates to "T1" T-grid, "T9" T-grid, "TG9" 9/16 regular grid, "HC" hard ceiling or "JB" hard ceiling J-box mount. "SC" Screw slot grid are optional.

### Exterior Finish:

All Linear Express products are available in White polyester powder coat finish to ensure durability.

### 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 to form specified row lengths. End plate kits will also be supplied as required per row specifications.

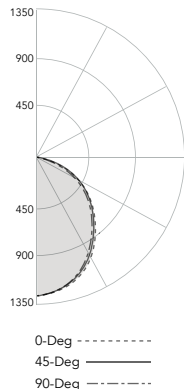
## PHOTOMETRICS

### LE-2R-04-MC-WH

Total Lumens: 3,526  
Ratio: 0% Up and 100% Down  
Wattage: 31.1  
Efficacy: 113.4 (Lumens Per Watt)  
Fixture Length: Four Feet

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixt
0 - 30	1068	30.3
0 - 40	1696	48.1
0 - 60	2853	80.9
0 - 90	3526	100.0
90 - 180	0	0.0
0 - 180	3526	100.0

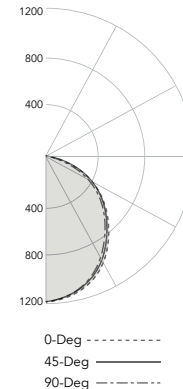


### LE-3R-04-MC-WH

Total Lumens: 3,713  
Ratio: 0% Up and 100% Down  
Wattage: 31.1  
Efficacy: 119.4 (Lumens Per Watt)  
Fixture Length: Four Feet

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixt
0 - 30	1080	29.1
0 - 40	1738	46.8
0 - 60	2970	80.0
0 - 90	3713	100.0
90 - 180	0	0.0
0 - 180	3713	100.0



## ENERGY CONSUMPTION WATTS PER 4FT

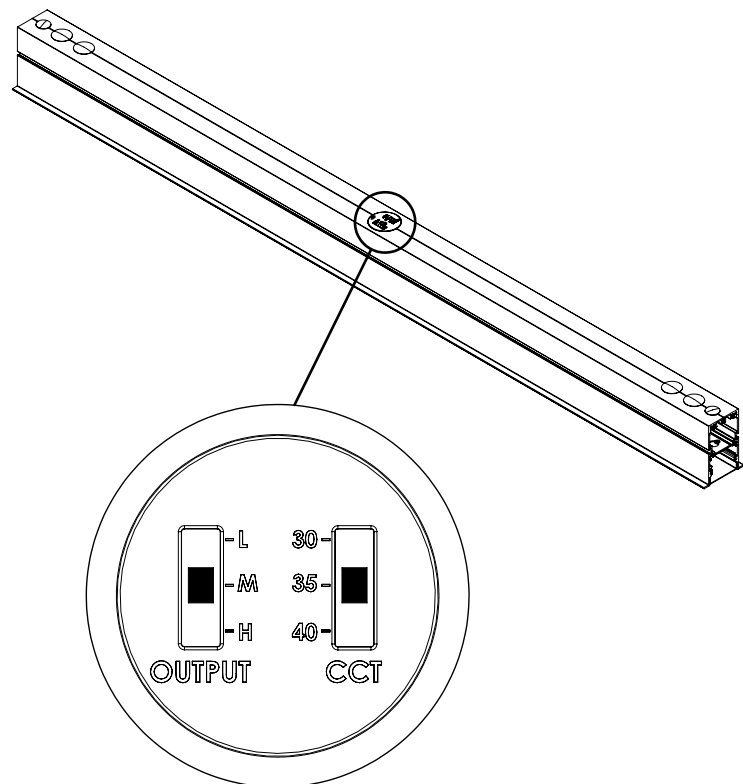
### 2-INCH PRODUCTS

		3000K	3500K	4000K
LUMEN OUTPUT	LOW	2186	2255	2290
	MEDIUM	3150	3298	3304
	HIGH	4114	4409	4340
WATTAGE	LOW	21.7	21.1	21.7
	MEDIUM	31.9	30.8	31.9
	HIGH	43.4	41.7	43.7
EFFICACY	LOW	100.7	106.9	105.5
	MEDIUM	98.7	107.1	103.6
	HIGH	94.8	105.7	99.3

### 3-INCH PRODUCTS

		3000K	3500K	4000K
LUMEN OUTPUT	LOW	2428	2531	2551
	MEDIUM	3460	3713	3670
	HIGH	4456	4864	4767
WATTAGE	LOW	22.0	21.0	21.6
	MEDIUM	32.8	31.1	32.1
	HIGH	44.4	41.9	43.6
EFFICACY	LOW	110.4	120.5	118.1
	MEDIUM	105.5	119.4	114.3
	HIGH	100.4	116.1	109.3

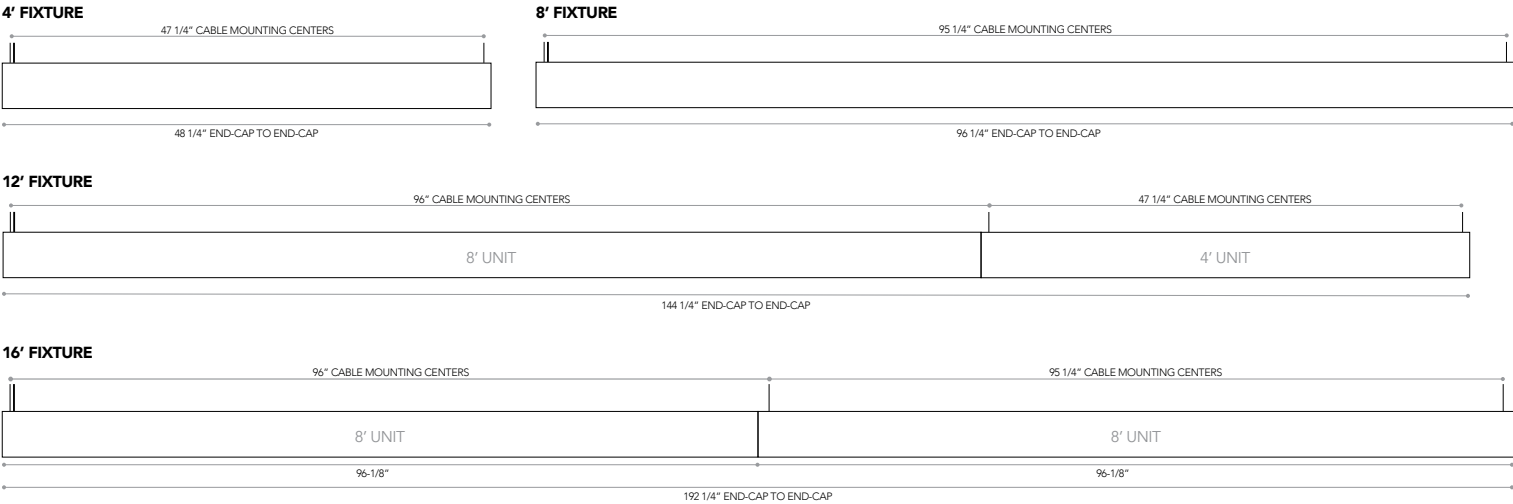
## SELECTABLE SWITCH



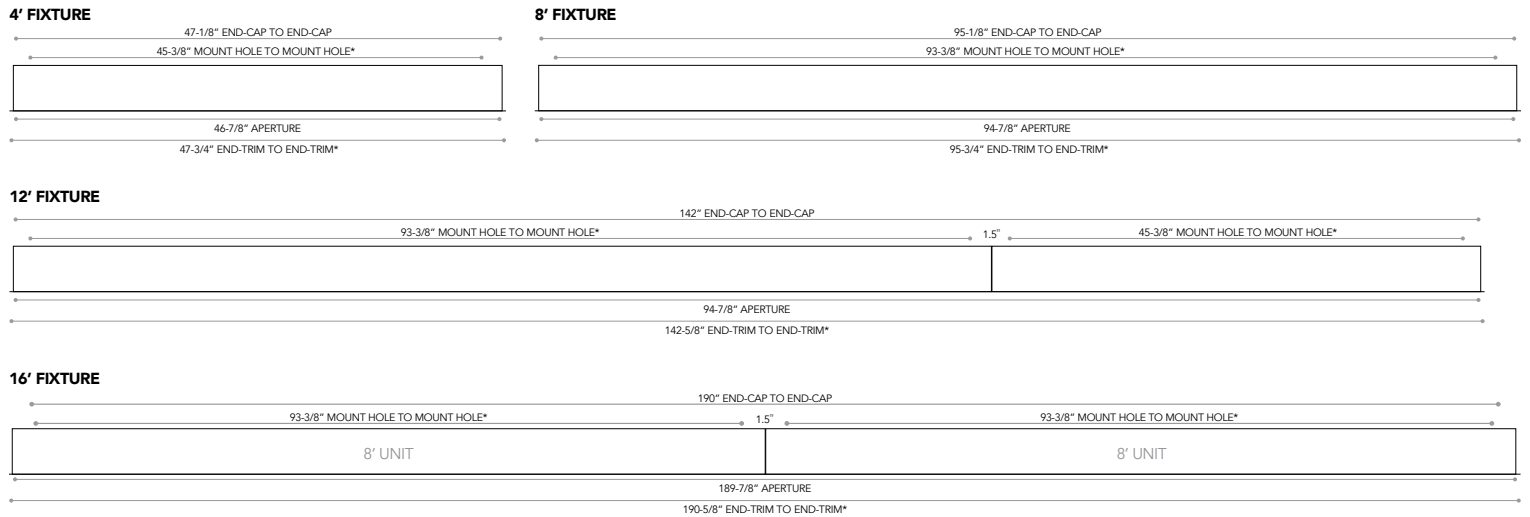
#### FIELD SELECTABLE

	Output	Color Temperature
Low	600 Lm/ft	3000K
Medium	900 Lm/ft	3500K
High	1200 Lm/ft	4000K

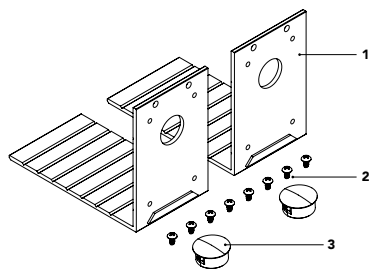
SUSPENDED FIXTURE LAYOUT 4' - 8' - 12' - 16'



## RECESSED FIXTURE LAYOUT 4' - 8' - 12' - 16'

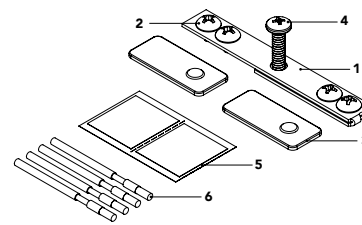


## RECESSED KIT OPTIONS



### EXTENDED END CAP KIT

- 1 Tee Flush Extended End Trim (2)
- 2 #6-20 x .375" Pan Phillips Pointed Small Screws (8)
- 3 7/8 Diameter Hole Plug (2)

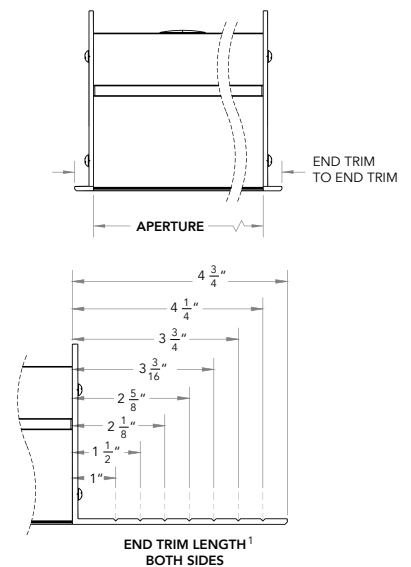


### JOINT KIT

- 1 Joint Tension Bracket (1)
- 2 #10-16 x 1/4" Pan Head Phillips, Zinc Plated Steel (4)
- 3 Alignment Tab (2)
- 4 Draw Screw (1)
- 5 Light Shield Tape (2)
- 6 Alignment Pin (4)

## FIXTURE ROW COMPONENTS

ROW LENGTH	4' - UNIT	8' - UNIT	JOINT KITS	END CAP KITS	END TRIM TO END TRIM	END TRIM LENGTH	OF CEILING CUT-OUT LENGTH
4	1	-	0	1	47-3/4"	-	47-3/8"
8	-	1	0	1	95-3/4"	-	47-3/8"
12	1	1	1	1	143-3/4"	-	142-3/8"
16	-	2	1	1	190-5/8"	1.00"	190-3/8"
20	1	2	2	1	237-9/16"	1-1/2"	237-1/4"
24	-	3	2	1	285-1/2"	1-1/2"	285-1/4"
28	1	3	3	1	332-1/2"	2-1/8"	332-1/8"
32	-	4	3	1	380-1/2"	2-1/8"	380-1/8"
36	1	4	4	1	427-3/8"	2-5/8"	427"
40	-	5	4	1	475-3/8"	2-5/8"	475"
44	1	5	5	1	522-5/16"	3-3/16"	522"
48	-	6	5	1	570-5/16"	3-3/16"	570"
52	1	6	6	1	617-1/14"	3-3/4"	616-7/8"
56	-	7	6	1	665-1/14"	3-3/4"	664-7/8"
60	1	7	7	1	712-1/8"	4-1/4"	711-3/4"
64	-	8	7	1	760-1/8"	4-1/4"	759-3/4"
68	1	8	8	1	807-00"	4-3/4"	806-3/4"
72	-	9	8	1	855-00"	4-3/4"	854-3/4"



### Note 1

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 2

Overlapping Flange Ceiling Cutout Width

- 2R - 2-3/8"
- 3R - 3-3/8"