

The ELEMENT Merge 1.5 Flush LED linear system represents the marriage of an indirect linear system, with a track system; all in one system with independent control and outputs for optimal illumination and power conservation. With varying length components, Merge 1.5 Flush can be configured up to a continuous 80' run from a single feed. A 90° connector is also available for illuminated same plane turns. Merge Gimbal or Drop Down Spots, or Tech Lighting low-voltage heads or pendants (using the FreeJack adapter) can be placed anywhere along the concealed low-voltage bus system for added versatility.

## Key features

- Indirect linear general illumination system with integrated low-voltage track
- Illuminated same plane turns with a 90° connector
- 2', 4', 6', 8' gangable lengths
- FreeJack adapter allows the use of any low-voltage Tech Lighting heads or pendants

## SPECIFICATIONS

DELIVERED LUMENS	Downlight: 700 lms/ft or 450 lms/ft
WATTS	Downlight: 12 watts/ft or 7 watts/ft
EFFICACY	58 or 64 l/w
CRI	80+ or 90+
CCT OPTIONS	2700K, 3000K, 3500K or Warm Color Dimming (3000K-2000K)
VOLTAGE	120V or 277V
DIMMING	ELV, 0-10V, Lutron Hi-Lume 2 Wire PWM (120V only) or Lutron Hi-Lume Eco System, 0-10V 1%, 0-10V 0.1%
TRANSITIONS	90° "L" horizontal turns
CEILING APPEARANCE	Flush Mount
POWER SUPPLY*	Constant Current (Each linear channel includes a self-contained ELV, 0-10V, Lutron Hi-Lume 2 Wire PWM (120V only) or Lutron Hi-Lume, Eco System Fade-to-Black Driver)
CONSTRUCTION	Aluminum
HARDWARE	Steel
FINISH	White or Silver Powder Coat
GENERAL LISTING	ETL
CALIFORNIA TITLE 24	Registered CEC Appliance Database. Can be used to comply with CEC 2016 Title 24 Part 6 (Static White, 90 CRI versions).
LED LIFETIME	L70; 50,000 hours
WARRANTY*	5 years

\*Visit ELEMENT-lighting.com for specific warranty limitations and details.  
\*\*Consult Quotes Department for additional driver options.

Concealed 10 gauge, low-voltage bus bar, order 12-volt remote transformer separately. Max run length is 80' for the channel; typical max run length is 40' for the low-voltage bus which can be powered from both sides for a total of 80'; system wattage will impact max run length.



MERGE  
shown flush mounted

## PERFORMANCE

### DOWNLIGHT (700 LPF)

LINEAR CHANNEL	FIXTURE OUTPUT (LMS)*	WATTAGE
2 FT	1400	24
4 FT	2800	48
6 FT	4200	72
8 FT	5600	96

\*REPRESENTS 3500K/80CRI

### DOWNLIGHT (450 LPF)

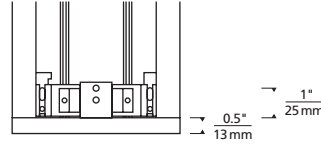
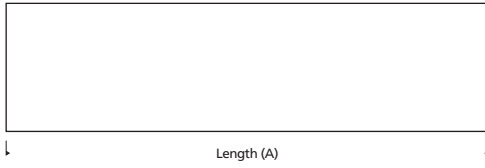
LINEAR CHANNEL	FIXTURE OUTPUT (LMS)*	WATTAGE
2 FT	900	14
4 FT	1800	28
6 FT	2700	42
8 FT	3600	56

\*REPRESENTS 3500K/80CRI

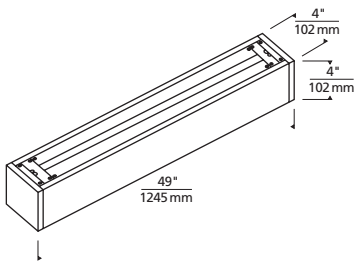
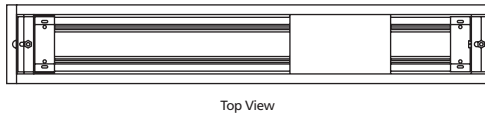
## Optional

- **EM:** integrated emergency battery back-up to provide illumination when main power is lost. EM battery is integrated in the Merge linear channel housing and provides 90 minutes of egress illumination. Each EM fixture ships with a mounted test switch/indicator light.
  - 2' EM linear channel: 1063 total lumens
  - 4', 6', & 8' EM linear channel: 1107 total lumens (illuminates 4' section of the 8' channel)

## HOUSING



LINEAR  
flush top view



## DIMENSIONS

	LENGTH (A)
2' INDIVIDUAL	24"
4' INDIVIDUAL	48"
6' INDIVIDUAL	72"
8' INDIVIDUAL	96"

Please note that end caps will add 1" to overall length of the fixture

## GRIDS

SYSTEM	NOMINAL LENGTH	CRI / COLOR TEMPERATURE	FINISH	CONTROLS	OPTIONAL
FLS1	2 FT	<b>H835</b> HIGH OUTPUT, 80 CRI, 3500K	<b>W</b> MATTE WHITE	<b>ELV0</b> ELV/0-10V DIMMING UNV*	LEAVE BLANK IF NO DESIRED OPTIONS <b>-EM</b> EMERGENCY BATTERY‡
	4 FT	<b>H927</b> HIGH OUTPUT, 90 CRI, 2700K	<b>S</b> SILVER	<b>ELD0</b> ELDOLED 0.1% 0-10V LINEAR UNV*	
	6 FT	<b>H930</b> HIGH OUTPUT, 90 CRI, 3000K		<b>ELD0A</b> ELDOLED 0.1% 0-10V LOGARITHMIC UNV*	
	8 FT	<b>H935</b> HIGH OUTPUT, 90 CRI, 3500K		<b>ELD1</b> ELDOLED 1% 0-10V LINEAR UNV*	
		<b>H9WD</b> HIGH OUTPUT, 90 CRI, WARM DIM/3000-2700K		<b>ELD1A</b> ELDOLED 1% 0-10V LOGARITHMIC UNV*	
		<b>S835</b> STANDARD OUTPUT, 80 CRI, 3500K		<b>HL2W</b> LUTRON HI-LUME 1% 2 WIRE/PWM**	
		<b>S927</b> STANDARD OUTPUT, 90 CRI, 2700K		<b>HLECO</b> LUTRON HI-LUME 1% ECO-SYSTEM FADE-TO-BLACK UNV*	
		<b>S930</b> STANDARD OUTPUT, 90 CRI, 3000K			
		<b>S935</b> STANDARD OUTPUT, 90 CRI, 3500K			
		<b>S9WD</b> STANDARD OUTPUT, 90 CRI, WARM DIM/3000-2000K			

### FLS1

\*UNV = 120V/277V INPUT VOLTAGE. \*\*HL2W – TWO WIRE LOW-VOLTAGE ELECTRONIC DIMMING, 120 VOLT ONLY. ‡EM ONLY AVAILABLE ON STATIC WHITE LINEAR CHANNELS (NO 9WD).

## TRANSFORMERS\*

(ORDERED SEPARATELY, WHEN POWERING LOW-VOLTAGE TRACK)

ITEM	DESCRIPTION	DIMMING
<b>700AT060EL</b>	ELECTRONIC, 60W, 120V	ELV
<b>700AT152EL</b>	ELECTRONIC, 150W, 120V	ELV
<b>700AT152ELD010</b>	ELECTRONIC, 150W, 120V	0-10V
<b>700AT150T</b>	MAGNETIC, 150W, 120V	MAGNETIC
<b>700AT150T277</b>	MAGNETIC, 150W, 277V	MAGNETIC
<b>700AT302EL</b>	ELECTRONIC, 300W, 120V	ELV
<b>700AT300T</b>	MAGNETIC, 300W, 120V	MAGNETIC
<b>700AT300T277</b>	MAGNETIC, 300W, 277V	MAGNETIC

DO NOT LOAD TRANSFORMER ABOVE 70% OF RATED LOAD DUE TO IN-RUSH CURRENT. \*CONSULT SPEC SHEETS FOR DIMENSIONS.

## FINISHING KIT

SYSTEM	TYPE	STYLE	FINISH
FLS1	FK FINISHING KIT	1 CLOSED ENDCAPS	<b>W</b> MATTE WHITE <b>S</b> SILVER
<b>FLS1</b>	<b>FK</b>	<b>1</b>	

INCLUDES 2 ENDCAPS.

## PROJECT INFO

FIXTURE TYPE & QUANTITY	JOB NAME & INFO	NOTES

**ELEMENT**  
by Tech Lighting†

GENERATION BRANDS  
7400 Linder Avenue, Skokie, Illinois 60077  
T 847.410.4400 F 847.410.4500



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## PHOTOMETRICS: MERGE FLUSH MOUNT

DESCRIPTION: Merge Flush Mount LED 4' Linear Channel  
80 CRI, 3500K

MODEL: FLS14S930W

INPUT POWER (WATTS): 37.5

INPUT POWER FACTOR: 0.99

ABSOLUTE LUMINOUS FLUX (LUMENS): 1929

LUMEN EFFICACY (LUMENS PER WATT): 51.4

ANGLE	0°	45°	90°
0°	612	612	612
5°	598	609	626
10°	593	604	621
15°	584	595	612
20°	571	582	600
25°	554	566	583
30°	532	546	562
35°	506	522	537
40°	475	492	506
45°	442	458	469
50°	406	419	415
55°	364	375	352
60°	319	315	286
65°	269	249	196
70°	215	174	89
75°	159	78	29
80°	102	18	16
85°	50	8	8
90°	4	2	1

