

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 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)

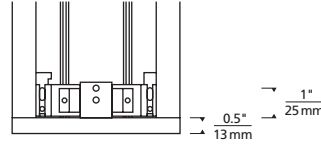
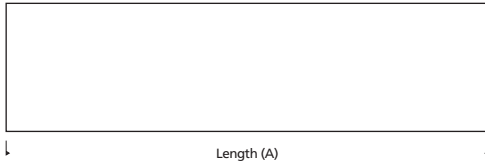
LINEAR CHANNEL	FIXTURE OUTPUT (LMS)*	WATTAGE
2 FT	900	14
4 FT	1800	28
6 FT	2700	42
8 FT	3600	56

*REPRESENTS 3500K/80CRI

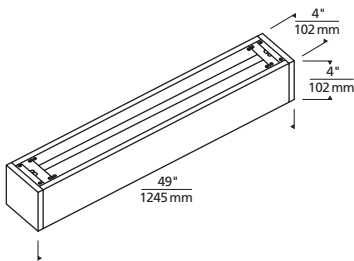
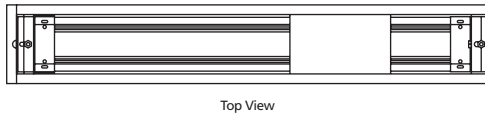
Optional

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

*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
700AT060EL	ELECTRONIC, 60W, 120V	ELV
700AT152EL	ELECTRONIC, 150W, 120V	ELV
700AT152ELD010	ELECTRONIC, 150W, 120V	0-10V
700AT150T	MAGNETIC, 150W, 120V	MAGNETIC
700AT150T277	MAGNETIC, 150W, 277V	MAGNETIC
700AT302EL	ELECTRONIC, 300W, 120V	ELV
700AT300T	MAGNETIC, 300W, 120V	MAGNETIC
700AT300T277	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	W MATTE WHITE
		2 OPEN ENDCAPS	
FLS1	FK		W

INCLUDES 2 ENDCAPS.

PROJECT INFO

FIXTURE TYPE & QUANTITY	JOB NAME & INFO	NOTES

ELEMENT
by Tech Lighting†

GENERATION BRANDS
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PHOTOMETRICS: MERGE FLUSH MOUNT

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

MODEL: FLS145930W

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

