

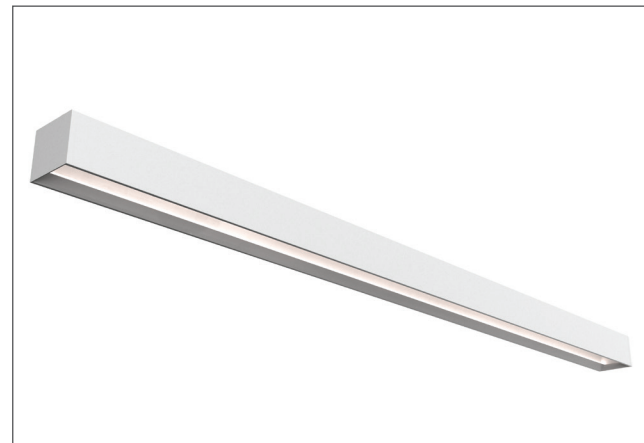
The ELEMENT Merge 3.0 Flush LED linear system represents the marriage of an indirect linear system, with a track system; all in one system with independent control and outputs for optimal illumination and power conservation. With varying length components, Merge 3.0 Flush can be configured up to a continuous 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 connector) 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
- 4', 6', 8' gangable lengths
- FreeJack connector allows the use of any low-voltage Tech Lighting heads or pendants

## SPECIFICATIONS

	HIGH OUTPUT	STANDARD OUTPUT	LOW OUTPUT
DELIVERED LUMENS	Downlight: 1000 lms/ft	Downlight: 700 lms/ft	Downlight: 350 lms/ft
WATTS	Downlight: 14 watts/ft	Downlight: 9 watts/ft	Downlight: 4.5 watts/ft
EFFICACY	71 l/w (80CRI, 3500K)	78 l/w (80CRI, 3500K)	78 l/w (80CRI, 3500K)
CRI	80+, 90+		
CCT OPTIONS	2700K, 3000K, 3500K, or Programmable White (2700K-4000K)		
COLOR CONSISTENCY	3-Step		
VOLTAGE	120V or 277V (Concealed 10 gauge, low-voltage bus bar, order 12-volt remote transformer sold separately)		
DIMMING	Premium TRIAC, ELV (Below 1% Standard) 0-10V (Down to 5%) Lutron Hi-Lume Ecosystem Fade-To-Black or PWM (Down to 1%) eldoLED 0-10V or Dali (Down to 0.1%)		
TRANSITIONS	90° "L" horizontal turns		
CEILING APPEARANCE	Flush Mount		
CEILING APERTURE	3" beveled aperture		
HOUSING	IC Airtight available in 4', 6' and 8'. IC suitable up to R60 spray foam insulation (Consult factory for Chicago Plenum). EM units available Non-IC only.		
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, 0-10V 1%, 0-10V 0.1%		
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		



MERGE  
shown flush mounted

## PERFORMANCE

### LOW OUTPUT (350 LPF)

LINEAR CHANNEL	FIXTURE OUTPUT (LMS)*	WATTAGE
4 FT	1400	18
6 FT	2100	27
8 FT	2800	36

\*REPRESENTS 3500K/80CRI

### STANDARD OUTPUT (700 LPF)

LINEAR CHANNEL	FIXTURE OUTPUT (LMS)*	WATTAGE
4 FT	2800	36
6 FT	4200	54
8 FT	5600	72

\*REPRESENTS 3500K/80CRI

### HIGH OUTPUT (1000 LPF)

LINEAR CHANNEL	FIXTURE OUTPUT (LMS)*	WATTAGE
4 FT	4000	56
6 FT	6000	84
8 FT	8000	112

\*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.  
- 4',6', & 8' EM linear channel: 1107 total lumens (illuminates 4' section of the 8' channel)

\*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.

## GRIDS

SYSTEM	NOMINAL LENGTH	OUTPUT	CRI/CCT	FINISH	CONTROLS	OPTIONAL
FLS3	4 FT	10 1400 LMS/FT DOWNLIGHT ONLY††	827	80 CRI, 2700K	W MATTE WHITE	ELV/0-10V DIMMING UNV** ELDOLED 0.1% 0-10V LINEAR UNV** ELDOLED 0.1% 0-10V LOGARITHMIC UNV** ELD1 ELDOLED 1% 0-10V LINEAR UNV** ELD1A ELDOLED 1% 0-10V LOGARITHMIC UNV** HL2W LUTRON HI-LUME 1% 2 WIRE/PWM† HLECO LUTRON HI-LUME 0.1% ECO-SYSTEM FADE-TO-BLACK UNV**
	6 FT		830	80 CRI, 3000K		
	8 FT	70 700 LMS/FT DOWNLIGHT ONLY	835	80 CRI, 3500K		
			927	90 CRI, 2700K		
	30 350 LMS/FT DOWNLIGHT ONLY	930	90 CRI, 3000K			
		935	90 CRI, 3500K			
		82740	80 CRI, 4000K-2700K, PROGRAMMABLE WHITE*			

FLS3

W

\*0-10 VOLT DIMMING ONLY, NOT AVAILABLE WITH ELDOLED OPTIONS. \*\*UNV = 120V/277V INPUT VOLTAGE. †HL2W - 2-WIRE LOW-VOLTAGE ELECTRONIC DIMMING, 120V ONLY. ††1000 LMS/FT ONLY AVAILABLE IN STATIC WHITE AND ONLY WITH STANDARD ELV AND 0-10V DRIVERS. ‡EM ONLY AVAILABLE ON STATIC WHITE LINEAR CHANNELS.

## 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
FLS3	FK FINISHING KIT	1 CLOSED ENDCAPS	W MATTE WHITE S SILVER
FLS3	FK	1	

INCLUDES 2 ENDCAPS.

## T-BAR CLIPS

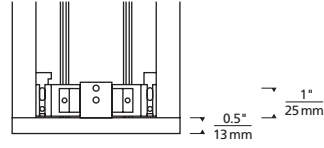
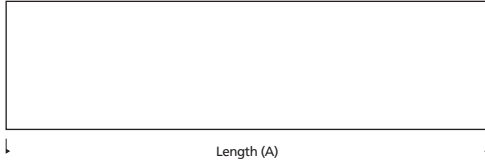
SYSTEM	SIZE	FINISH
SLS	09 9/16" 15 15/16"	B BLACK W WHITE
SLS		

USED WHEN INSTALLING A SUSPENDED MERGE SYSTEM RUN ON A LAY-IN T-GRID CEILING, EACH SUSPENSION POINT REQUIRES ONE T-BAR CLIP. SHOWN WITH COUPLING INCLUDED WITH FIXTURE MOUNTING HARDWARE.

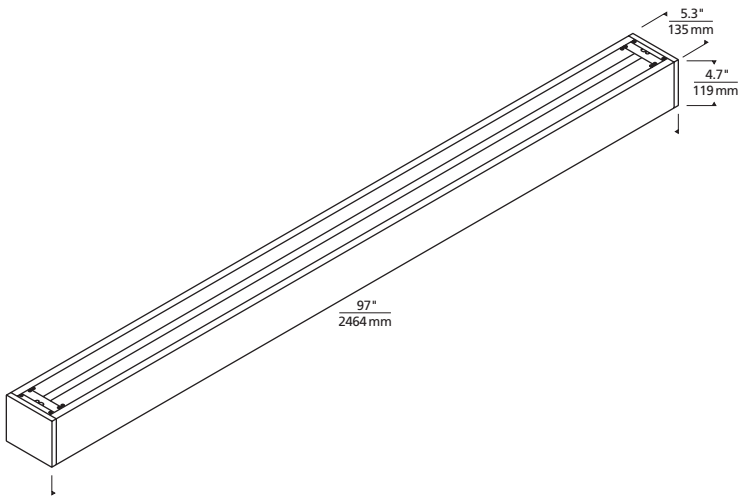
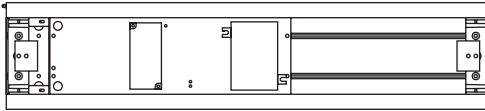
## PROJECT INFO

FIXTURE TYPE & QUANTITY	JOB NAME & INFO	NOTES

## HOUSING



LINEAR  
flush top view



## DIMENSIONS

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

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

## PHOTOMETRICS: MERGE FLUSH MOUNT

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

MODEL: FLS3470835W

INPUT POWER (WATTS): 36  
 INPUT POWER FACTOR: 0.99  
 ABSOLUTE LUMINOUS FLUX (LUMENS): 2825  
 LUMEN EFFICACY (LUMENS PER WATT): 78.5

DESCRIPTION: Merge LED 4" Linear Channel  
80 CRI, 3500K

MODEL: FLS3410835W High Output

INPUT POWER (WATTS): 57.2  
 INPUT POWER FACTOR: 0.98  
 ABSOLUTE LUMINOUS FLUX (LUMENS): 4020  
 LUMEN EFFICACY (LUMENS PER WATT): 70

ANGLE	0°	45°	90°
0°	854	854	854
5°	837	849	870
10°	829	841	863
15°	815	827	849
20°	796	808	830
25°	771	785	806
30°	738	756	777
35°	701	722	742
40°	656	682	702
45°	606	634	655
50°	555	583	602
55°	497	527	533
60°	434	466	466
65°	366	390	406
70°	292	321	332
75°	215	250	190
80°	138	108	24
85°	65	12	11
90°	0	0	0

ANGLE	0°	45°	90°
0°	1338	1338	1338
5°	1313	1330	1363
10°	1302	1316	1348
15°	1281	1292	1322
20°	1251	1260	1286
25°	1213	1218	1240
30°	1165	1166	1184
35°	1110	1105	1114
40°	1044	1033	1014
45°	969	950	902
50°	887	840	778
55°	795	722	636
60°	695	590	516
65°	588	452	398
70°	468	334	255
75°	347	193	72
80°	226	47	44
85°	104	21	21
90°	4	2	2

