

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. (Note: At this time, Flush Mount version not compatible with T-Grid ceilings. Please consult factory.)

## 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 adapter allows the use of any low-voltage Tech Lighting heads or pendants

## SPECIFICATIONS

	HIGH OUTPUT	STANDARD OUTPUT
DELIVERED LUMENS	Downlight: 650 lms/ft	Downlight: 450 lms/ft
WATTS	Downlight: 12 watts/ft	Downlight: 7 watts/ft
EFFICACY	54 l/w (80CRI, 3500K)	64 l/w (80CRI, 3500K)
CRI	80+, 90+	
CCT OPTIONS	2700K, 3000K, 3500K or Warm Color Dimming (3000K-2000K)	
COLOR CONSISTENCY	3-Step	
VOLTAGE	120V or 277V (Concealed 10 gauge, low-voltage bus bar, order 12-volt remote transformer sold separately)	
DIMMING	ELV/0-10V (Down to 5%) Lutron Hi-Lume Ecosystem Fade-To-Black or PWM (Down to 1%) eldoLED 0-10V (Down to 0.1%)	
TRANSITIONS	Optional Illuminated 90° horizontal turns (same plane) or 90° ceiling-to-wall transitions	
CEILING APPEARANCE	Flush Mount***	
CEILING APERTURE	1.5" 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	
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

### HIGH OUTPUT DOWNLIGHT (650 LPF)

LINEAR CHANNEL	FIXTURE OUTPUT (LMS)*	WATTAGE
4 FT	2600	48
6 FT	3900	72
8 FT	5200	96

\*REPRESENTS 3500K/80CRI

### STANDARD OUTPUT DOWNLIGHT (450 LPF)

LINEAR CHANNEL	FIXTURE OUTPUT (LMS)*	WATTAGE
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 test switch/indicator light.  
- 4', 6', & 8' EM linear channel: 1018 total lumens (illuminates 4' section of the 8' channel)

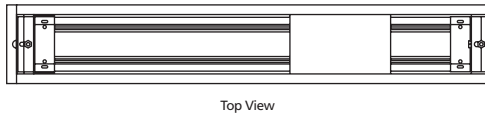
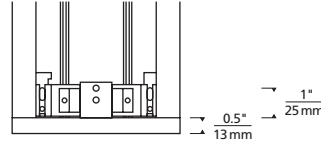
\*Visit ELEMENT-lighting.com for specific warranty limitations and details.

\*\*Consult Quotes Department for additional driver options.

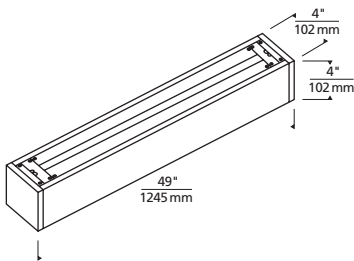
\*\*\*At this time, Flush Mount version not compatible with T-Grid ceilings. Please consult factory.

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.

## HOUSING



LINEAR  
flush top view

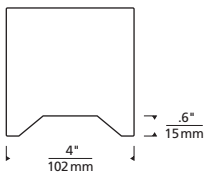


## DIMENSIONS

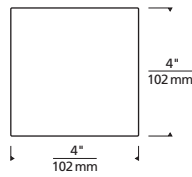
	LENGTH (A)
4' INDIVIDUAL	48"
6' INDIVIDUAL	72"
8' INDIVIDUAL	96"

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

## END CAPS



OPEN



CLOSED

## GRIDS

SYSTEM	NOMINAL LENGTH	OUTPUT	CRI/CCT	FINISH	CONTROLS	OPTIONAL
FLS1	4 FT	<b>H</b> HIGH OUTPUT, 650 LMS/FT	<b>835</b> 80 CRI, 3500K	<b>W</b> MATTE WHITE	<b>ELV0</b> ELV/0-10V DIMMING UNV†	<b>EM</b> LEAVE BLANK IF NO DESIRED OPTIONS EMERGENCY BATTERY‡
	6 FT	<b>S</b> STANDARD OUTPUT, 450 LMS/FT	<b>927</b> 90 CRI, 2700K		<b>ELD0</b> ELDOLED 0.1% 0-10V LINEAR UNV†	
	8 FT		<b>930</b> 90 CRI, 3000K		<b>ELD0A</b> ELDOLED 0.1% 0-10V LOGARITHMIC UNV†	
			<b>935</b> 90 CRI, 3500K		<b>ELD1</b> ELDOLED 1% 0-10V LINEAR UNV†	
		<b>9WD</b> 90 CRI, WARM DIM, 3000-2000K	<b>ELD1A</b> ELDOLED 1% 0-10V LOGARITHMIC UNV†	<b>HL2W</b> LUTRON HI-LUME 1% 2 WIRE/PWM†	<b>HLECO</b> LUTRON HI-LUME 1% ECO-SYSTEM FADE-TO-BLACK UNV†	

FLS1

W

\*HL2W – 2 WIRE LOW-VOLTAGE ELECTRONIC DIMMING, 120 VOLT ONLY.  
†UNV = 120V/277V INPUT VOLTAGE.  
‡EM ONLY AVAILABLE ON STATIC WHITE (NO WARM DIM).

## 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	<b>W</b> MATTE WHITE
		2 OPEN ENDCAPS	
<b>FLS1</b>	<b>FK</b>		<b>W</b>

INCLUDES 2 ENDCAPS, 1 ADDITIONAL SUSPENSION MOUNT & ALL NECESSARY MOUNTING HARDWARE.

## PROJECT INFO

FIXTURE TYPE & QUANTITY	JOB NAME & INFO	NOTES

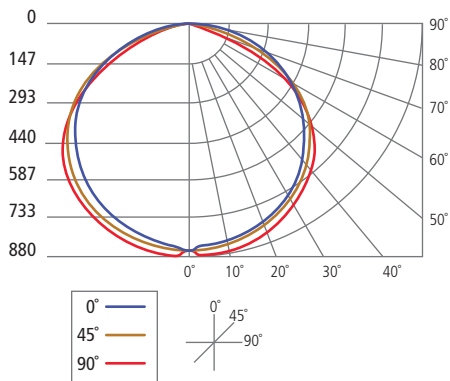
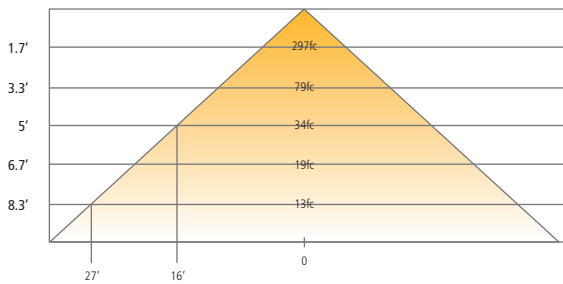
## PHOTOMETRICS: MERGE FLUSH MOUNT

DESCRIPTION: Merge Flush Mount Direct LED High  
4' Linear Channel, 90 CRI, 3000K

MODEL: FLS14H930W

INPUT POWER (WATTS): 47.5  
 INPUT POWER FACTOR: 0.98  
 ABSOLUTE LUMINOUS FLUX (LUMENS): 2731  
 LUMEN EFFICACY (LUMENS PER WATT): 57.4

ANGLE	0°	45°	90°
0°	859	859	859
5°	842	854	878
10°	833	847	871
15°	820	834	859
20°	801	816	842
25°	775	793	820
30°	744	765	793
35°	706	731	757
40°	664	690	717
45°	617	644	668
50°	564	591	593
55°	506	531	508
60°	443	448	415
65°	373	357	290
70°	297	251	140
75°	217	112	37
80°	139	23	22
85°	66	10	10
90°	3	1	1



DESCRIPTION: Merge Flush Mount Direct LED Standard  
4' Linear Channel, 90 CRI, 3000K

MODEL: FLS14S930W

INPUT POWER (WATTS): 28.9  
 INPUT POWER FACTOR: 0.98  
 ABSOLUTE LUMINOUS FLUX (LUMENS): 1782  
 LUMEN EFFICACY (LUMENS PER WATT): 61.7

ANGLE	0°	45°	90°
0°	560	560	560
5°	550	556	572
10°	544	551	567
15°	535	543	559
20°	523	532	549
25°	507	517	534
30°	486	498	517
35°	462	476	494
40°	433	451	468
45°	402	420	436
50°	369	386	388
55°	331	348	333
60°	289	294	271
65°	245	235	189
70°	196	164	93
75°	144	75	27
80°	93	16	14
85°	45	6	6
90°	2	1	1

