

The ELEMENT Merge 3.0 Suspended LED linear system represents the marriage of indirect downlight, independent up light, and 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 Suspended 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 many 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

- Downlight, uplight, and low-voltage track in one linear fixture
- Illuminated same-plane turns with a 90° connector
- 2', 4', 6', 8' gangable lengths
- FreeJack connector allows the use of any low-voltage Tech Lighting heads or pendants
- Downlight, uplight, and track system controllable separately

## SPECIFICATIONS

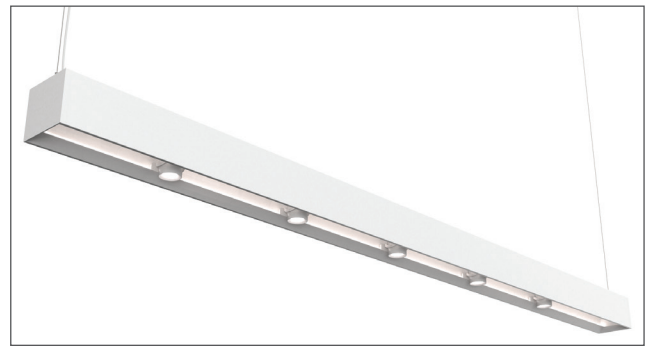
DELIVERED LUMENS	Downlight: 1400 lms/ft, 700 lms/ft or 350 lms/ft Uplight: 600 lms/ft or 350 lms/ft
WATTS	Downlight: 18 watts/ft, 9 watts/ft or 4.5 watts/ft Uplight: 7.5 watts/ft or 4.5 watts/ft
EFFICACY	Downlight: 78 l/w or 78 l/w Uplight: 80 l/w
CRI	80+ or 90+
CCT OPTIONS	2700K, 3000K, 3500K, Programmable White (2700K-4000K)
VOLTAGE	120V or 277V
DIMMING	ELV, 0-10V, Lutron Hi-Lume 2 Wire PWM (120V only) or Lutron Hi-Lume Eco System, 0-10V 0.1%, 0-10V 1%
TRANSITIONS	90° "L" horizontal turns
CEILING APPEARANCE	Suspended aircraft cable or rigid stem
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 suspended

## PERFORMANCE

### UPLIGHT (350 LPF)

LINEAR CHANNEL	FIXTURE OUTPUT (LMS)*	WATTAGE
2 FT	925	9
4 FT	1850	18
6 FT	2775	27
8 FT	3700	36

\*REPRESENTS 3500K/80CRI

### UPLIGHT (600 LPF)

LINEAR CHANNEL	FIXTURE OUTPUT (LMS)*	WATTAGE
2 FT	1400	15
4 FT	2800	30
6 FT	4200	45
8 FT	5600	60

\*REPRESENTS 3500K/80CRI

### DOWNLIGHT (350 LPF)

LINEAR CHANNEL	FIXTURE OUTPUT (LMS)*	WATTAGE
2 FT	700	9
4 FT	1400	18
6 FT	2100	27
8 FT	2800	36

\*REPRESENTS 3500K/80CRI

### DOWNLIGHT (700 LPF)

LINEAR CHANNEL	FIXTURE OUTPUT (LMS)*	WATTAGE
2 FT	1400	18
4 FT	2800	36
6 FT	4200	54
8 FT	5600	72

\*REPRESENTS 3500K/80CRI

### DOWNLIGHT (1400 LPF)

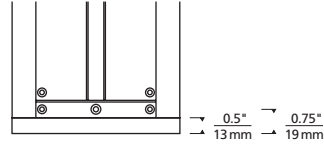
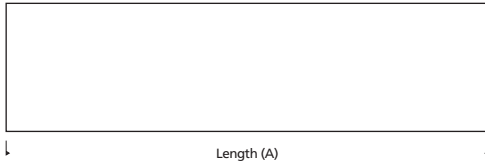
LINEAR CHANNEL	FIXTURE OUTPUT (LMS)*	WATTAGE
2 FT	2800	36
4 FT	5600	72
6 FT	8400	108
8 FT	12000	144

\*REPRESENTS 3500K/80CRI

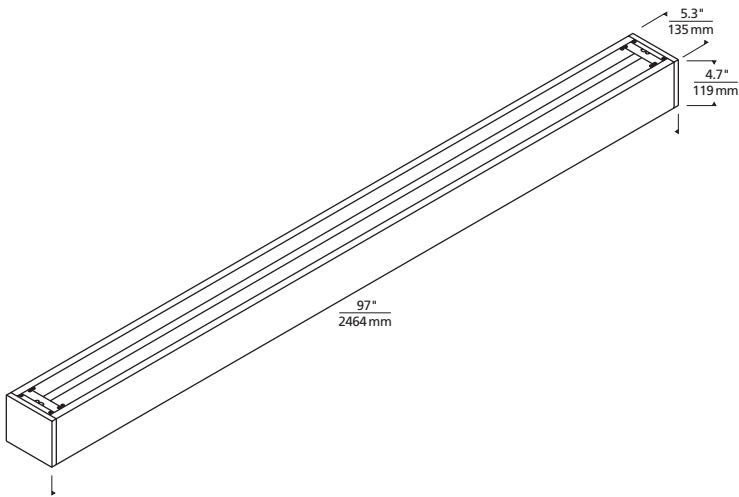
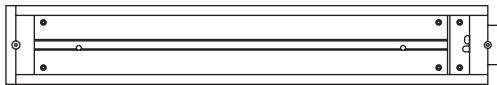
## Optional

- **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  
suspended 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

### LINEAR CHANNELS

SYSTEM	NOMINAL LENGTH	OUTPUT	MOUNTING	CRI/COLOR TEMPERATURE	FINISH	CONTROLS	OPTIONAL
SLS3	2 2'	10	SR04	827	W	ELV/0-10V DIMMING UNV**	LEAVE BLANK IF NO DESIRED OPTIONS -EM EMERGENCY BATTERY†
	4 4'	70	SR08	830	W	ELDOLED 0.1% 0-10V LINEAR UNV**	
	6 6'	30	SA04	835	S	ELD0A	
	8 8'	16	SA12	927	S	ELD1	
		76		930		ELD1A	
		36	935	HL2W			
		06	82740	HLECO			
		13					
		73					
		33					
		03					

### SLS3

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

### FINISHING KIT

SYSTEM	TYPE	STYLE	MOUNTING	FINISH
SLS3	FK	1	SR04	W
			SR08	S
			SA04	
			SA12	

### SLS3

FK

1

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

### POWER FEED CANOPY

SYSTEM	TYPE	FINISH
SLS3	PFM	W
	MPFM	S
	PFM12	
	MPFM12	

### SLS3

INCLUDES MOUNTING HARDWARE AND NECESSARY CORD/WIRE TO COMPLETE ELECTRICAL CONNECTIONS. \*USE WHEN POWERING MULTIPLE FIXTURES NOT FROM END OF RUN.

### 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.

### T-BAR CLIPS

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

### SLS

USED WHEN INSTALLING A SUSPENDED MERGE SYSTEM RUN ON A LAY-IN T-BAR 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

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**ELEMENT**  
by Tech Lighting†

GENERATION BRANDS

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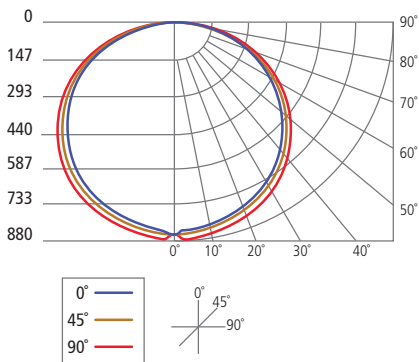
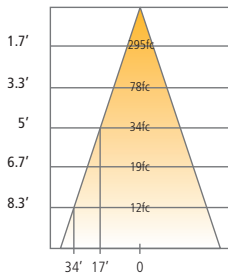
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## PHOTOMETRICS: MERGE SUSPENDED

DESCRIPTION: Merge Suspended Direct LED  
4' Linear Channel, 80 CRI, 3500K  
MODEL: SLS3470SR04835W

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

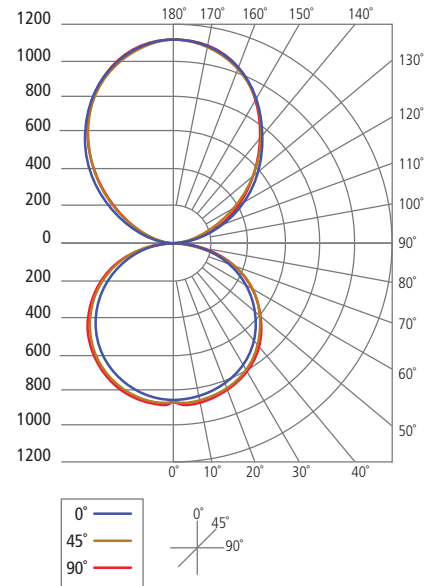
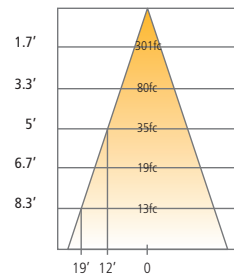
ANGLE	0°	45°	90°
0°	854	854	854
5°	837	849	870
10°	829	841	863
15°	815	827	849
20°	796	808	830
25°	771	785	806
30°	738	756	777
35°	701	722	742
40°	656	682	702
45°	606	634	655
50°	555	583	602
55°	497	527	533
60°	434	466	466
65°	366	390	406
70°	292	321	332
75°	215	250	190
80°	138	108	24
85°	65	12	11
90°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



DESCRIPTION: Merge Suspended Direct/Indirect LED  
4' Linear Channel, 80 CRI, 3500K  
MODEL: SLS3476SR04835W

INPUT POWER (WATTS): 65.6  
INPUT POWER FACTOR: 0.99  
ABSOLUTE LUMINOUS FLUX (LUMENS): 5579  
LUMEN EFFICACY (LUMENS PER WATT): 85

ANGLE	0°	45°	90°
0°	870	870	870
5°	854	865	886
10°	846	859	883
15°	832	849	873
20°	812	832	857
25°	786	808	828
30°	753	775	796
35°	714	737	758
40°	670	695	715
45°	620	645	666
50°	567	592	609
55°	507	534	538
60°	442	469	469
65°	372	391	408
70°	296	322	327
75°	220	246	173
80°	141	97	28
85°	66	17	16
90°	5	6	6
95°	39	11	9
100°	102	54	34
105°	171	131	94
110°	246	216	175
115°	326	301	266
120°	406	387	358
125°	488	473	450
130°	570	558	542
135°	656	642	636
140°	737	724	725
145°	814	805	811
150°	886	879	892
155°	951	946	962
160°	1007	1003	1021
165°	1054	1048	1065
170°	1086	1081	1097
175°	1105	1102	1116
180°	1111	1111	1111



## PHOTOMETRICS: MERGE SUSPENDED

DESCRIPTION: Merge Suspended Indirect LED  
4' Linear Channel, 80 CRI, 3500K

MODEL: SLS34706SR04835W

INPUT POWER (WATTS): 29.7  
 INPUT POWER FACTOR: 0.99  
 ABSOLUTE LUMINOUS FLUX (LUMENS): 2766  
 LUMEN EFFICACY (LUMENS PER WATT): 93.1

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

MODEL: SLS3410SR04835W 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°
90°	0	0	0
95°	38	9	7
100°	99	51	32
105°	168	129	91
110°	244	214	173
115°	323	298	263
120°	405	383	356
125°	487	469	448
130°	570	555	540
135°	654	639	632
140°	736	724	723
145°	811	804	810
150°	885	879	890
155°	951	946	962
160°	1007	1002	1021
165°	1054	1048	1065
170°	1087	1081	1098
175°	1106	1102	1117
180°	1112	1112	1112

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

