

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

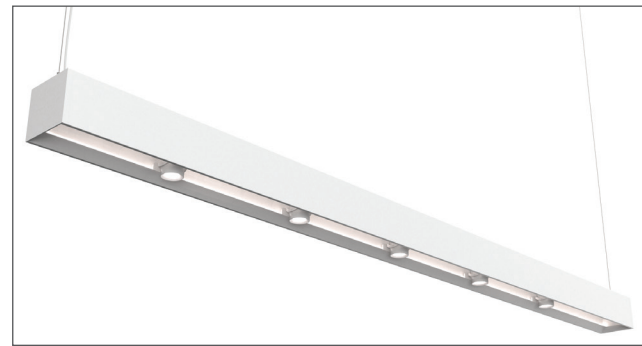
- Downlight, uplight, and low-voltage track in one linear fixture
- Illuminated same-plane turns with a 90° connector
- 4', 6', 8' gangable lengths
- FreeJack connector allows the use of any low-voltage Tech Lighting heads or pendants
- Downlight, uplight, and track system controllable separately

SPECIFICATIONS

	HIGH OUTPUT	STANDARD OUTPUT	LOW OUTPUT
DELIVERED LUMENS	Downlight: 1000 lms/ft	Downlight: 700 lms/ft Uplight: 600 lms/ft	Downlight: 350 lms/ft Uplight: 350 lms/ft
WATTS	Downlight: 14 watts/ft	Downlight: 9 watts/ft Uplight: 7 watts/ft	Downlight: 4.5 watts/ft Uplight: 4.5 watts/ft
EFFICACY	Downlight: 71 l/w	Downlight: 78 l/w Uplight: 86 l/w	Downlight: 78 l/w Uplight: 78 l/w
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	Suspended aircraft cable or rigid stem		
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	Housing: 20 gauge sheet metal Extrusion: Aluminum		
HARDWARE	Steel		
STEEL	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 suspended

PERFORMANCE

LOW OUTPUT UPLIGHT (350 LPF)

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

*REPRESENTS 3500K/80CRI

LOW OUTPUT DOWNLIGHT (350 LPF)

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

*REPRESENTS 3500K/80CRI

HIGH OUTPUT DOWNLIGHT (1000 LPF)

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

*REPRESENTS 3500K/80CRI

STANDARD OUTPUT UPLIGHT (600 LPF)

LINEAR CHANNEL	FIXTURE OUTPUT (LMS)*	WATTAGE
4 FT	2800	28
6 FT	4200	42
8 FT	5600	56

*REPRESENTS 3500K/80CRI

STANDARD OUTPUT DOWNLIGHT (700 LPF)

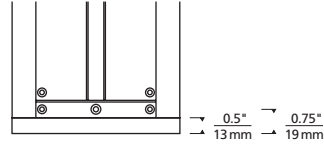
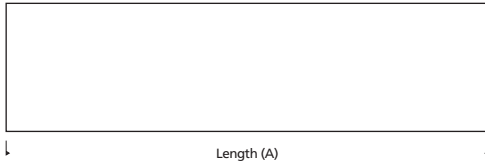
LINEAR CHANNEL	FIXTURE OUTPUT (LMS)*	WATTAGE
4 FT	2800	36
6 FT	4200	54
8 FT	5600	72

*REPRESENTS 3500K/80CRI

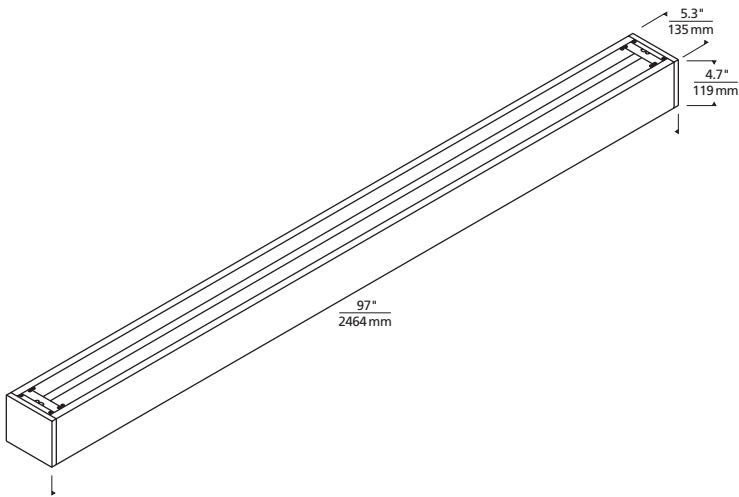
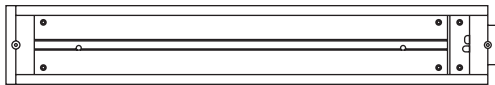
Optional

- 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)

HOUSING



LINEAR
suspended 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

GRIDS

LINEAR CHANNELS

SYSTEM	NOMINAL LENGTH	DOWNLIGHT OUTPUT	UPLIGHT OUTPUT	MOUNTING	CRI/CCT	FINISH	CONTROLS	OPTIONAL
SLS3	4 4 FT	1 1000 LMS/FT DOWNLIGHT	6 600 LMS/FT UPLIGHT	SR04 48" RIGID STEM	827 80CRI, 2700K	W MATTE WHITE	ELV/0-10V DIMMING UNV**	LEAVE BLANK IF NO DESIRED OPTIONS -EM EMERGENCY BATTERY†
	6 6 FT			SR08 96" RIGID STEM	830 80CRI, 3000K			
	8 8 FT	7 700 LMS/FT DOWNLIGHT	3 350 LMS/FT UPLIGHT	SA04 48" ADJUSTABLE CABLE	835 80CRI, 3500K	S SILVER	ELD0 ELDOLED 0.1% 0-10V LINEAR UNV**	
				SA12 144" ADJUSTABLE CABLE	927 90CRI, 2700K		ELD0A ELDOLED 0.1% 0-10V LOGARITHMIC UNV**	
		3 350 LMS/FT DOWNLIGHT	0 NO DOWNLIGHT††		930 90CRI, 3000K		ELD1 ELDOLED 1% 0-10V LINEAR UNV**	
		0 NO DOWNLIGHT††			935 90CRI, 3500K		ELD1A ELDOLED 1% 0-10V LOGARITHMIC UNV**	
					82740 80CRI, 4000K-2700K, PROGRAMMABLE WHITE		HL2W LUTRON HI-LUME 1% 2 WIRE/PWM†	
							HLECO LUTRON HI-LUME 0.1% ECOSYSTEM FADE-TO-BLACK UNV**	

SLS3

*0-10V DIMMING ONLY, NOT AVAILABLE WITH ELDOLED OPTIONS. **UNV = 120V/277V INPUT VOLTAGE. †HL2W - 2-WIRE LOW-VOLTAGE ELECTRONIC DIMMING, 120 VOLT ONLY. ††CANNOT SELECT "00" NO DOWNLIGHT/NO UPLIGHT. ‡EM OPTION ONLY AVAILBE ON STATIC WHITE (NO PROGRAMMABLE WHITE).

FINISHING KIT

SYSTEM	TYPE	STYLE	MOUNTING	FINISH
SLS3	FK FINISHING KIT	1 CLOSED ENDCAP	SR04 48" RIGID STEM SR08 96" RIGID STEM SA04 48" ADJUSTABLE CABLE SA12 144" ADJUSTABLE CABLE	W MATTE WHITE S SILVER

SLS3 FK 1

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

POWER FEED CANOPY

SYSTEM	TYPE	FINISH
SLS3	PFM POWER FEED W/MOUNTING POINT MPFM MID-RUN POWER FEED W/MOUNTING POINT* PFM12 POWER FEED W/MOUNTING POINT & 12V FEED MPFM12 MID-RUN POWER FEED W/MOUNTING POINT & 12V FEED*	W MATTE WHITE S SILVER

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-GRID CEILING, EACH SUSPENSION POINT REQUIRES ONE T-BAR CLIP. SHOWN WITH COUPLING INCLUDED WITH FIXTURE MOUNTING HARDWARE.

PROJECT INFO

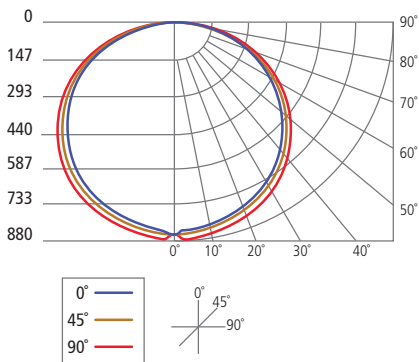
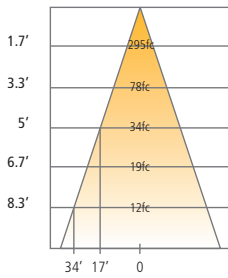
FIXTURE TYPE & QUANTITY	JOB NAME & INFO	NOTES

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

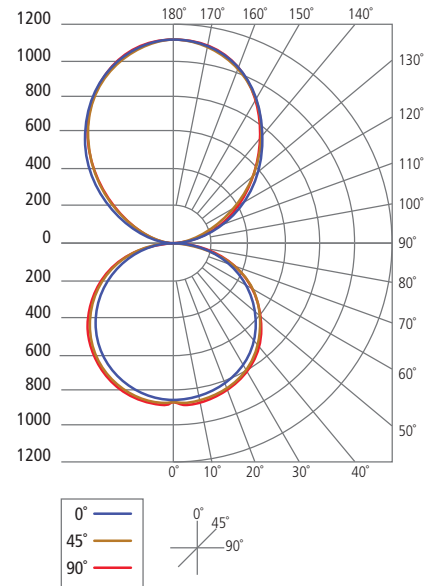
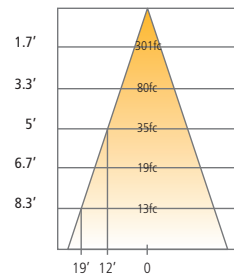
ANGLE	0°	45°	90°
0°	854	854	854
5°	837	849	870
10°	829	841	863
15°	815	827	849
20°	796	808	830
25°	771	785	806
30°	738	756	777
35°	701	722	742
40°	656	682	702
45°	606	634	655
50°	555	583	602
55°	497	527	533
60°	434	466	466
65°	366	390	406
70°	292	321	332
75°	215	250	190
80°	138	108	24
85°	65	12	11
90°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

