

The ELEMENT Merge 1.5 Suspended LED linear system represents the marriage of indirect downlight, independent uplight, and 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 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. Drop Down Spots, or many 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

- 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 adapter allows the use of any low-voltage Tech Lighting heads or pendants
- Downlight, uplight, and track system controllable separately

## SPECIFICATIONS

|                     |   |
|---------------------|---|
| DELIVERED LUMENS    | Downlight: 700 lms/ft or 450 lms/ft<br>Uplight: 600 lms/ft or 350 lms/ft  |
| WATTS               | Downlight: 12 watts/ft or 7 watts/ft<br>Uplight: 7.5 watts/ft or 4.5 watts/ft   |
| EFFICACY            | Downlight: 58 or 64 l/w<br>Uplight: 80 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 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 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 (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

### 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

### 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)

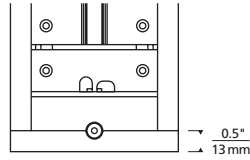
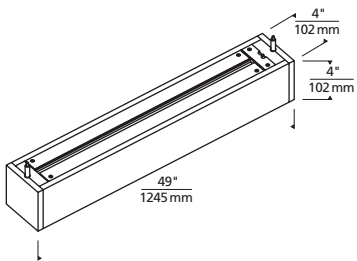
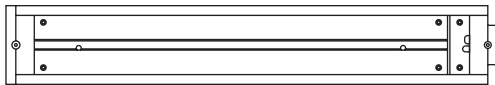
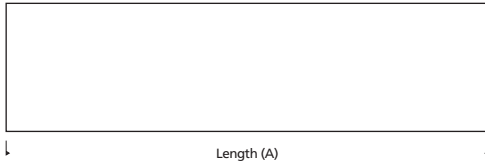
| LINEAR CHANNEL | FIXTURE OUTPUT (LMS)* | WATTAGE |
|----------------|-----------------------|---------|
| 2 FT           | 900                   | 14      |
| 4 FT           | 1800                  | 28      |
| 6 FT           | 2700                  | 42      |
| 8 FT           | 3600                  | 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  
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 | MOUNTING  | CRI/COLOR TEMPERATURE   | FINISH               | CONTROLS  | OPTIONAL  |
|-------------|----------------|---|---|----------------------|---|---|
| <b>SLS1</b> | 2 2'           | <b>SR04</b> 48" RIGID STEM  | <b>H0835</b> 80 CRI, 3500K, HIGH DOWN ONLY                      | <b>W</b> MATTE WHITE | <b>ELV0</b> ELV/0-10V DIMMING UNV*                          | <b>EM</b> LEAVE BLANK IF NO DESIRED OPTIONS<br>EMERGENCY BATTERY‡ |
|             | 4 4'           | <b>SR08</b> 96" RIGID STEM  | <b>H0927</b> 90 CRI, 2700K, HIGH DOWN ONLY                      |                      | <b>ELDO</b> ELDOLED 0.1% 0-10V LINEAR UNV*                  |   |
|             | 6 6'           | <b>SA04</b> 48" ADJUSTABLE CABLE                                    | <b>H0930</b> 90 CRI, 3000K, HIGH DOWN ONLY                      |                      | <b>ELD0A</b> ELDOLED 0.1% 0-10V LOGARITHMIC UNV*            |   |
|             | 8 8'           | <b>SA12</b> 144" ADJUSTABLE CABLE                                   | <b>H0935</b> 90 CRI, 3500K, HIGH DOWN ONLY                      |                      | <b>ELD1</b> ELDOLED 1% 0-10V LINEAR UNV*                    |   |
|             |                |   | <b>H09WD</b> 90 CRI, WARM DIM 3000-2000K, HIGH DOWN ONLY        |                      | <b>ELD1A</b> ELDOLED 1% 0-10V LOGARITHMIC UNV*              |   |
|             |                | <b>S0835</b> 80 CRI, 3500K, STANDARD DOWN ONLY                      | <b>S0927</b> 90 CRI, 2700K, STANDARD DOWN ONLY                  |                      | <b>HL2W</b> LUTRON HI-LUME 1% 2 WIRE/PWM**                  |   |
|             |                | <b>S0930</b> 90 CRI, 3000K, STANDARD DOWN ONLY                      | <b>S0935</b> 90 CRI, 3500K, STANDARD DOWN ONLY                  |                      | <b>HLECO</b> LUTRON HI-LUME 1% ECOSYSTEM FADE-TO-BLACK UNV* |   |
|             |                | <b>S09WD</b> 90 CRI, WARM DIM 3000-2000K, STANDARD DOWN ONLY        | <b>OS835</b> 80 CRI, 3500K, STANDARD UP ONLY                    |                      |   |   |
|             |                | <b>OS927</b> 90 CRI, 2700K, STANDARD UP ONLY                        | <b>OS930</b> 90 CRI, 3000K, STANDARD UP ONLY                    |                      |   |   |
|             |                | <b>OS935</b> 90 CRI, 3500K, STANDARD UP ONLY                        | <b>OS9WD</b> 90 CRI, WARM DIM 3000-2000K, STANDARD UP ONLY      |                      |   |   |
|             |                | <b>OH835</b> 80 CRI, 3500K, HIGH UP ONLY                            | <b>OH927</b> 90 CRI, 2700K, HIGH UP ONLY                        |                      |   |   |
|             |                | <b>OH930</b> 90 CRI, 3000K, HIGH UP ONLY                            | <b>OH935</b> 90 CRI, 3500K, HIGH UP ONLY                        |                      |   |   |
|             |                | <b>OH9WD</b> 90 CRI, WARM DIM 3000-2000K, HIGH UP ONLY              | <b>HS835</b> 80 CRI, 3500K, HIGH DOWN/STANDARD UP               |                      |   |   |
|             |                | <b>HS927</b> 90 CRI, 2700K, HIGH DOWN/STANDARD UP                   | <b>HS930</b> 90 CRI, 3000K, HIGH DOWN/STANDARD UP               |                      |   |   |
|             |                | <b>HS935</b> 90 CRI, 3500K, HIGH DOWN/STANDARD UP                   | <b>HS9WD</b> 90 CRI, WARM DIM 3000-2000K, HIGH DOWN/STANDARD UP |                      |   |   |
|             |                | <b>SS835</b> 80 CRI, 3500K, STANDARD DOWN/STANDARD UP               | <b>SS927</b> 90 CRI, 2700K, STANDARD DOWN/STANDARD UP           |                      |   |   |
|             |                | <b>SS930</b> 90 CRI, 3000K, STANDARD DOWN/STANDARD UP               | <b>SS935</b> 90 CRI, 3500K, STANDARD DOWN/STANDARD UP           |                      |   |   |
|             |                | <b>SS9WD</b> 90 CRI, WARM DIM 3000-2000K, STANDARD DOWN/STANDARD UP | <b>HH835</b> 80 CRI, 3500K, HIGH DOWN/HIGH UP                   |                      |   |   |
|             |                | <b>HH927</b> 90 CRI, 2700K, HIGH DOWN/HIGH UP                       | <b>HH930</b> 90 CRI, 3000K, HIGH DOWN/HIGH UP                   |                      |   |   |
|             |                | <b>HH935</b> 90 CRI, 3500K, HIGH DOWN/HIGH UP                       | <b>HH9WD</b> 90 CRI, WARM DIM 3000-2000K, HIGH DOWN/HIGH UP     |                      |   |   |
|             |                | <b>SH835</b> 80 CRI, 3500K, STANDARD DOWN/HIGH UP                   | <b>SH927</b> 90 CRI, 2700K, STANDARD DOWN/HIGH UP               |                      |   |   |
|             |                | <b>SH930</b> 90 CRI, 3000K, STANDARD DOWN/HIGH UP                   | <b>SH935</b> 90 CRI, 3500K, STANDARD DOWN/HIGH UP               |                      |   |   |
|             |                | <b>SH9WD</b> 90 CRI, WARM DIM 3000-2000K, STANDARD DOWN/HIGH UP     |   |                      |   |   |

SLS1

W

\*UNV = 120V/277V INPUT VOLTAGE. \*\*\*HL2W - TWO WIRE LOW-VOLTAGE ELECTRONIC DIMMING, 120 VOLT ONLY. †EM OPTION ONLY AVAILABLE ON STATIC WHITE LINEAR CHANNELS (NO 9WD).

## GRIDS

### FINISHING KIT

| SYSTEM | TYPE | STYLE         | MOUNTING                   | FINISH        |
|--------|------|---------------|----------------------------|---------------|
| SLS1   | FK   | FINISHING KIT | 1 CLOSED ENDCAP            | W MATTE WHITE |
|        |      |               | 2 OPEN ENDCAP              |               |
|        |      |               | SR04 48" RIGID STEM        |               |
|        |      |               | SR08 96" RIGID STEM        |               |
|        |      |               | SA04 48" ADJUSTABLE CABLE  |               |
|        |      |               | SA12 144" ADJUSTABLE CABLE |               |
| SLS1   | FK   |               |                            | W             |

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

### POWER FEED CANOPY

| SYSTEM | TYPE  | FINISH                                 |
|--------|---|--|
| SLS3   | PF  | POWER FEED ONLY                        |
|        | MPF   | MID-RUN POWER FEED ONLY*               |
|        | 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* |  |
| SLS3   |   | W                                      |

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 |

### T-BAR CLIPS

| SYSTEM | SIZE      | FINISH  |
|--------|-----------|---------|
| GTB    | 09 9/16"  | B BLACK |
|        | 15 15/16" | W WHITE |

### GTB

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.

DO NOT LOAD TRANSFORMER ABOVE 70% OF RATED LOAD DUE TO IN-RUSH CURRENT. \*CONSULT SPEC SHEETS FOR DIMENSIONS.

## PROJECT INFO

| FIXTURE TYPE & QUANTITY | JOB NAME & INFO | NOTES |
|-------------------------|-----------------|-------|
|                         |                 |       |
|                         |                 |       |

**ELEMENT**  
by Tech Lighting®

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## PHOTOMETRICS: MERGE SUSPENDED

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

MODEL: SLS145A04S0930W

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   |

