

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

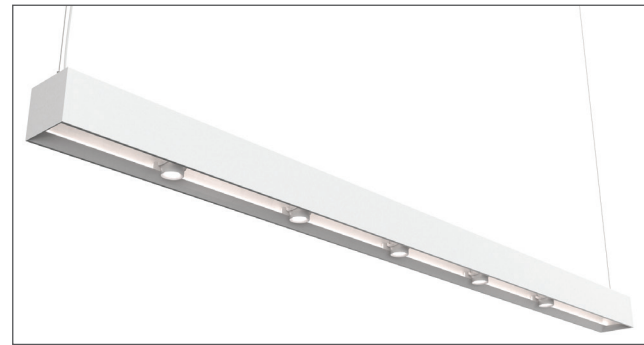
## SPECIFICATIONS

|                     | HIGH OUTPUT  | STANDARD OUTPUT                              | LOW OUTPUT                                       |
|---------------------|--|--|--|
| DELIVERED LUMENS    | Downlight: 1000 lms/ft   | Downlight: 700 lms/ft<br>Uplight: 600 lms/ft | Downlight: 350 lms/ft<br>Uplight: 350 lms/ft     |
| WATTS               | Downlight: 14 watts/ft   | Downlight: 9 watts/ft<br>Uplight: 7 watts/ft | Downlight: 4.5 watts/ft<br>Uplight: 4.5 watts/ft |
| EFFICACY            | Downlight: 71 l/w  | Downlight: 78 l/w<br>Uplight: 86 l/w         | Downlight: 78 l/w<br>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)<br>0-10V (Down to 5%)<br>Lutron Hi-Lume Ecosystem Fade-To-Black or PWM (Down to 1%)<br>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<br>2 Wire PWM (120V only) or Lutron Hi-Lume,<br>Eco System Fade-to-Black Driver, 0-10V 1%, 0-10V 0.1% |  |  |
| CONSTRUCTION        | Housing: 20 gauge sheet metal<br>Extrusion: 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

### 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      |

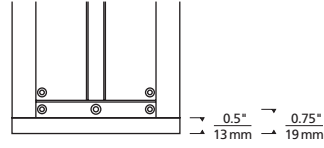
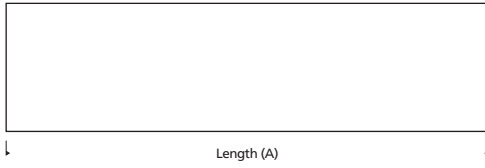
\*REPRESENTS 3500K/80CRI

## Optional

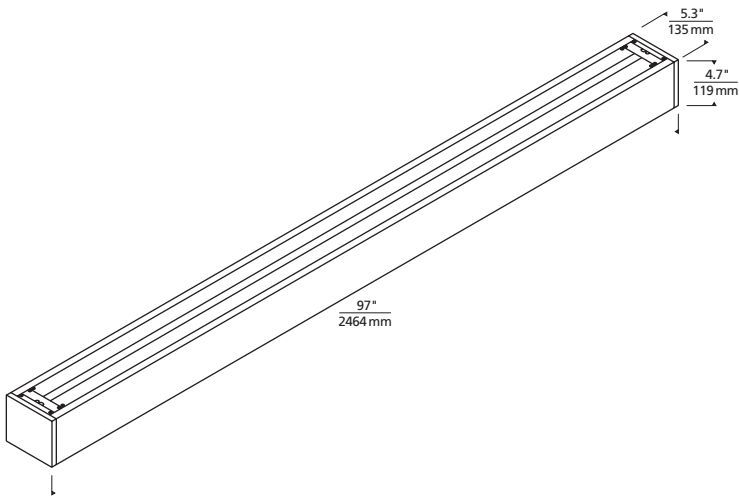
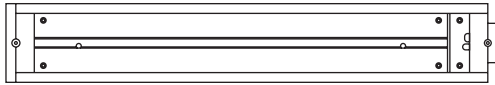
- EM: integrated emergency battery back-up to provide illumination when main power is lost. EM battery is integrated in the Merge linear channel housing and provides 90 minutes of egress illumination. Each EM fixture ships with a mounted test switch/indicator light.

- 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 |  |
|        | 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                         |                                    |   |                                   | EM EMERGENCY BATTERY†                      |
|        |                | 3 350 LMS/FT DOWNLIGHT  | 0 NO UPLIGHT††       | SA12 144" ADJUSTABLE CABLE                   | 927 90CRI, 2700K                         |                                    |   |                                   | ELD0 ELDOLED 0.1% 0-10V LINEAR UNV**       |
|        |                | 0 NO DOWNLIGHT††        |                      |  | 930 90CRI, 3000K                         |                                    |   |                                   | ELD0A ELDOLED 0.1% 0-10V LOGARITHMIC UNV** |
|        |                |                         |                      |  | 935 90CRI, 3500K                         |                                    |   |                                   | ELD1 ELDOLED 1% 0-10V LINEAR UNV**         |
|        |                |                         |                      | 82740 80CRI, 4000K-2700K, PROGRAMMABLE WHITE | ELD1A ELDOLED 1% 0-10V LOGARITHMIC UNV** | HL2W LUTRON HI-LUME 1% 2 WIRE/PWM† | HLECO LUTRON HI-LUME 0.1% ECOSYSTEM FADE-TO-BLACK UNV** |                                   |  |

### SLS3

### W

\*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<br>SR08 96" RIGID STEM<br>SA04 48" ADJUSTABLE CABLE<br>SA12 144" ADJUSTABLE CABLE | W MATTE WHITE<br>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<br>MPFM MID-RUN POWER FEED W/MOUNTING POINT*<br>PFM12 POWER FEED W/MOUNTING POINT & 12V FEED<br>MPFM12 MID-RUN POWER FEED W/MOUNTING POINT & 12V FEED* | W MATTE WHITE<br>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

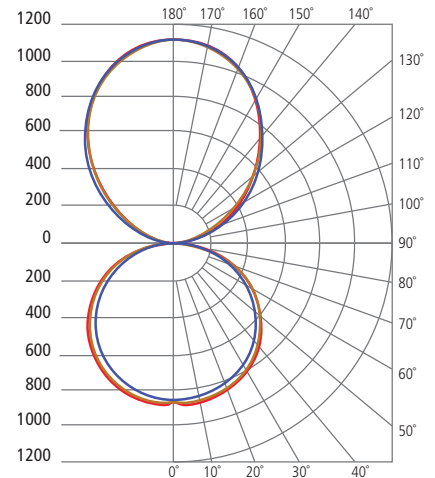
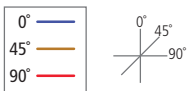
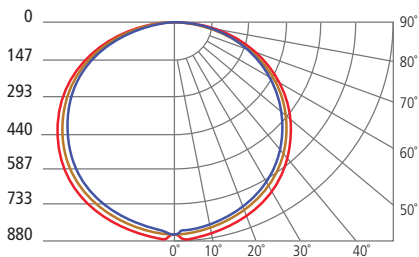
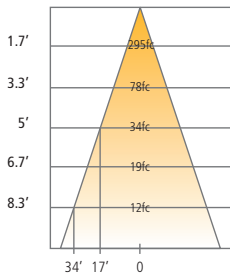
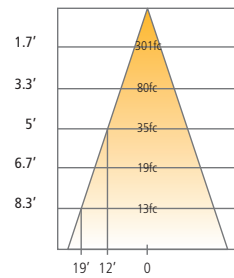
DESCRIPTION: Merge Suspended Direct/Indirect LED  
4' Linear Channel, 80 CRI, 3500K

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°    | 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°    | 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    |

