

The ELEMENT Merge 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 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 connector) can be placed anywhere along the concealed low-voltage bus system for added versatility.

Key features

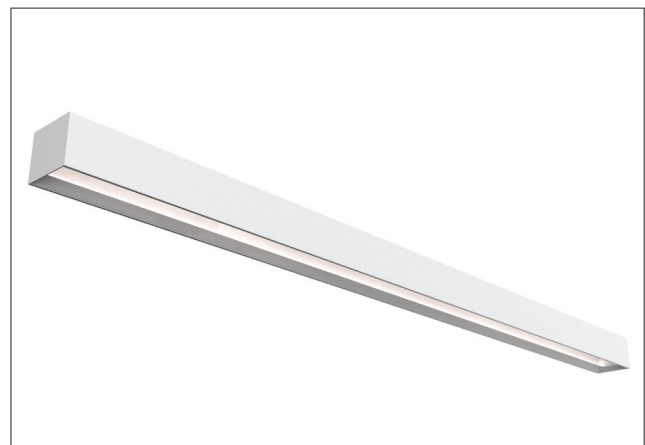
- Indirect linear general illumination system with integrated low-voltage track
- Illuminated same plane turns with a 90° connector
- 2', 4', 6', 8' gangable lengths
- FreeJack connector allows the use of any low-voltage Tech Lighting heads or pendants

SPECIFICATIONS

| | |
|--------------------|---|
| DELIVERED LUMENS | Downlight: 700 lms/ft or 350 lms/ft |
| WATTS | Downlight: 9 watts/ft or 4.5 watts/ft |
| EFFICACY | 78 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 1%, 0-10V 0.1% |
| TRANSITIONS | 90° "L" horizontal turns |
| CEILING APPEARANCE | Flush Mount |
| 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 |
| LED LIFETIME | L70; 50,000 hours |
| GENERAL LISTING | ETL |
| 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 flush mounted

PERFORMANCE

| (350 LPF) | | | (700 LPF) | | |
|------------------|-------------------|---------|------------------|--------------------|---------|
| LINEAR CHANNEL | LOW OUTPUT (LMS)* | WATTAGE | LINEAR CHANNEL | HIGH OUTPUT (LMS)* | WATTAGE |
| 2 FT | 700 | 9 | 2 FT | 1400 | 18 |
| 4 FT | 1400 | 18 | 4 FT | 2800 | 36 |
| 6 FT | 2100 | 27 | 6 FT | 4200 | 54 |
| 8 FT | 2800 | 36 | 8 FT | 5600 | 72 |

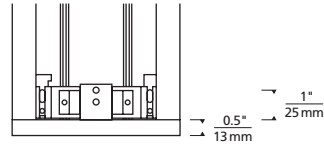
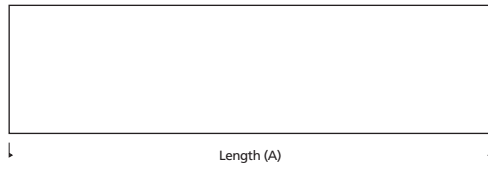
*REPRESENTS 3500K/80CRI

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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

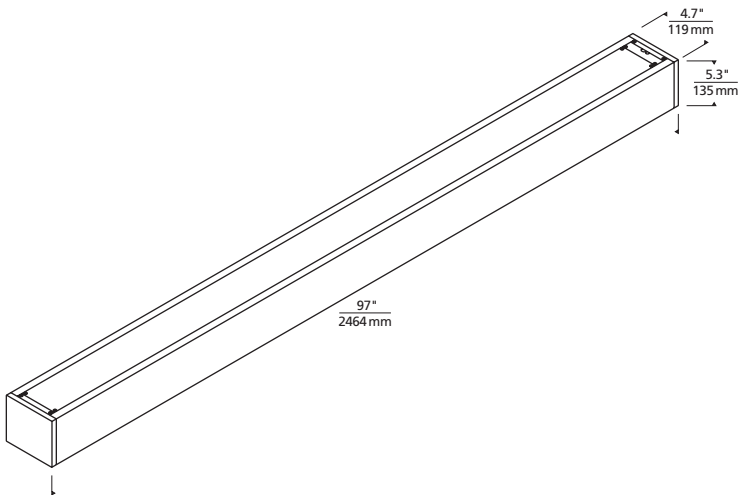


LINEAR
flush top view

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 | CRI/COLOR TEMPERATURE | | FINISH | CONTROLS | OPTIONAL |
|-------------|----------------|---|-----------------------|----------------------------|---|--|---|
| FLS3 | 2 2' | 70 700 LUMENS/FT DOWNLIGHT ONLY | 827 | 80CRI, 2700K | W MATTE WHITE S SILVER | ELD0 ELV/0-10V DIMMING UNV† (LEAVE BLANK) ELD0A ELDOLED 0.1% 0-10V LINEAR UNV† ELD1 ELDOLED 0.1% 0-10V LOGARITHMIC UNV† ELD1A ELDOLED 1% 0-10V LINEAR UNV† ELD1A ELDOLED 1% 0-10V LOGARITHMIC UNV† HL2W LUTRON HI-LUME 1% 2 WIRE/PWM** HLECO LUTRON HI-LUME 1% ECOSYSTEM FADE-TO-BLACK UNV† | -EM LEAVE BLANK IF NO DESIRED OPTIONS EMERGENCY BATTERY |
| | 4 4' | | 830 | 80CRI, 3000K | | | |
| | 6 6' | 30 350 LUMENS/FT DOWNLIGHT ONLY | 835 | 80CRI, 3500K | | | |
| | 8 8' | | 927 | 90CRI, 2700K | | | |
| | | | 930 | 90CRI, 3000K | | | |
| | | | 935 | 90CRI, 3500K | | | |
| | | | 82740 | 80CRI, PROGRAMMABLE WHITE* | | | |

FLS3

*0-10 VOLT DIMMING ONLY. WHEN ORDERING 82740, LEAVE CONTROLS COLUMN BLANK. NOT AVAILABLE WITH EM. **HL2W - TWO WIRE LOW-VOLTAGE ELECTRONIC DIMMING, 120 VOLT ONLY.
†UNV - 120V/277V INPUT VOLTAGE.

TRANSFORMERS* (ORDERED SEPARATELY)

| 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 |

FINISHING KIT

| SYSTEM | TYPE | STYLE | FINISH |
|-------------|-------------------------|-------------------------|---|
| FLS3 | FK FINISHING KIT | 1 CLOSED ENDCAPS | W MATTE WHITE S SILVER |
| FLS3 | FK | 1 | |

INCLUDES 2 ENDCAPS.

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

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

MODEL: RLS34I7RL835WELV1

INPUT POWER (WATTS): 35.5

INPUT POWER FACTOR: 0.99

ABSOLUTE LUMINOUS FLUX (LUMENS): 2750

LUMEN EFFICACY (LUMENS PER WATT): 78

| ANGLE | 0° | 45° | 90° |
|-------|-----|-----|-----|
| 0° | 960 | 960 | 960 |
| 5° | 944 | 953 | 976 |
| 10° | 935 | 940 | 958 |
| 15° | 920 | 918 | 933 |
| 20° | 898 | 890 | 899 |
| 25° | 869 | 855 | 859 |
| 30° | 834 | 814 | 811 |
| 35° | 793 | 766 | 756 |
| 40° | 744 | 711 | 678 |
| 45° | 689 | 648 | 589 |
| 50° | 630 | 567 | 496 |
| 55° | 566 | 475 | 404 |
| 60° | 496 | 382 | 338 |
| 65° | 419 | 292 | 268 |
| 70° | 337 | 226 | 170 |
| 75° | 249 | 139 | 48 |
| 80° | 163 | 33 | 29 |
| 85° | 78 | 15 | 13 |
| 90° | 0 | 0 | 0 |

