

The ELEMENT Merge 1.5 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 1.5 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 adapter) can be placed anywhere along the concealed low-voltage bus system for added versatility. (Note: At this time, Flush Mount version not compatible with T-Grid ceilings. Please consult factory.)

Key features

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

SPECIFICATIONS

| | HIGH OUTPUT | STANDARD OUTPUT |
|---------------------|---|-----------------------|
| DELIVERED LUMENS | Downlight: 650 lms/ft | Downlight: 450 lms/ft |
| WATTS | Downlight: 12 watts/ft | Downlight: 7 watts/ft |
| EFFICACY | 54 l/w (80CRI, 3500K) | 64 l/w (80CRI, 3500K) |
| CRI | 80+, 90+ | |
| CCT OPTIONS | 2700K, 3000K, 3500K or Warm Color Dimming (3000K-2000K) | |
| COLOR CONSISTENCY | 3-Step | |
| VOLTAGE | 120V or 277V (Concealed 10 gauge, low-voltage bus bar, order 12-volt remote transformer sold separately) | |
| DIMMING | ELV/0-10V (Down to 5%) Lutron Hi-Lume Ecosystem Fade-To-Black or PWM (Down to 1%) eldoLED 0-10V (Down to 0.1%) | |
| TRANSITIONS | Optional Illuminated 90° horizontal turns (same plane) or 90° ceiling-to-wall transitions | |
| CEILING APPEARANCE | Flush Mount*** | |
| CEILING APERTURE | 1.5" 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 | Aluminum | |
| 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 | |



MERGE
shown flush mounted

PERFORMANCE

HIGH OUTPUT DOWNLIGHT (650 LPF)

| LINEAR CHANNEL | FIXTURE OUTPUT (LMS)* | WATTAGE |
|----------------|-----------------------|---------|
| 4 FT | 2600 | 48 |
| 6 FT | 3900 | 72 |
| 8 FT | 5200 | 96 |

*REPRESENTS 3500K/80CRI

STANDARD OUTPUT DOWNLIGHT (450 LPF)

| LINEAR CHANNEL | FIXTURE OUTPUT (LMS)* | WATTAGE |
|----------------|-----------------------|---------|
| 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 test switch/indicator light.
- 4', 6', & 8' EM linear channel: 1018 total lumens (illuminates 4' section of the 8' channel)

*Visit ELEMENT-lighting.com for specific warranty limitations and details.

**Consult Quotes Department for additional driver options.

***At this time, Flush Mount version not compatible with T-Grid ceilings. Please consult factory.

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.

GRIDS

| SYSTEM | NOMINAL LENGTH | OUTPUT | CRI/CCT | FINISH | CONTROLS | OPTIONAL |
|--------|----------------|---|--|---|--|---|
| FLS1 | 4 FT | H HIGH OUTPUT, 650 LMS/FT | 835 80 CRI, 3500K | W MATTE WHITE | ELV0 ELV/0-10V DIMMING UNV† | EM LEAVE BLANK IF NO DESIRED OPTIONS EMERGENCY BATTERY‡ |
| | 6 FT | S STANDARD OUTPUT, 450 LMS/FT | 927 90 CRI, 2700K | | ELD0 ELDOLED 0.1% 0-10V LINEAR UNV† | |
| | 8 FT | | 930 90 CRI, 3000K | | ELD0A ELDOLED 0.1% 0-10V LOGARITHMIC UNV† | |
| | | | 935 90 CRI, 3500K | | ELD1 ELDOLED 1% 0-10V LINEAR UNV† | |
| | | 9WD 90 CRI, WARM DIM, 3000-2000K | ELD1A ELDOLED 1% 0-10V LOGARITHMIC UNV† | HL2W LUTRON HI-LUME 1% 2 WIRE/PWM† | HLECO LUTRON HI-LUME 1% ECO-SYSTEM FADE-TO-BLACK UNV† | |

FLS1

W

*HL2W – 2 WIRE LOW-VOLTAGE ELECTRONIC DIMMING, 120 VOLT ONLY.

†UNV = 120V/277V INPUT VOLTAGE.

‡EM ONLY AVAILABLE ON STATIC WHITE (NO WARM DIM).

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.

FINISHING KIT

| SYSTEM | TYPE | STYLE | FINISH |
|-------------|------------------|------------------|----------------------|
| FLS1 | FK FINISHING KIT | 1 CLOSED ENDCAPS | W MATTE WHITE |
| | | 2 OPEN ENDCAPS | |
| FLS1 | FK | | W |

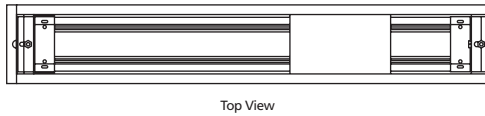
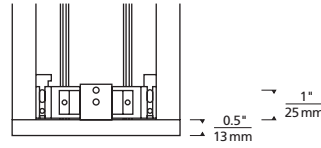
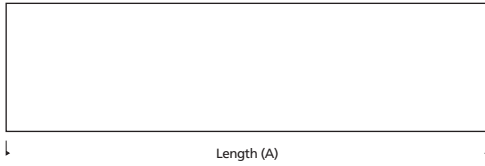
INCLUDES 2 ENDCAPS, 1 ADDITIONAL SUSPENSION MOUNT & ALL NECESSARY MOUNTING HARDWARE.

PROJECT INFO

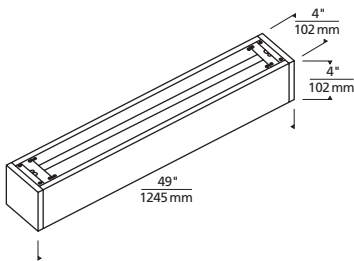
| FIXTURE TYPE & QUANTITY | JOB NAME & INFO | NOTES |
|-------------------------|-----------------|-------|
| | | |
| | | |



HOUSING



LINEAR
flush top view

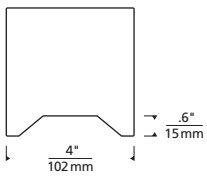


DIMENSIONS

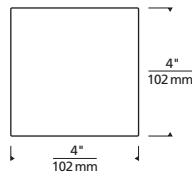
| | LENGTH (A) |
|---------------|------------|
| 4' INDIVIDUAL | 48" |
| 6' INDIVIDUAL | 72" |
| 8' INDIVIDUAL | 96" |

Please note that end caps will add 1" to overall length of the fixture

END CAPS



OPEN



CLOSED

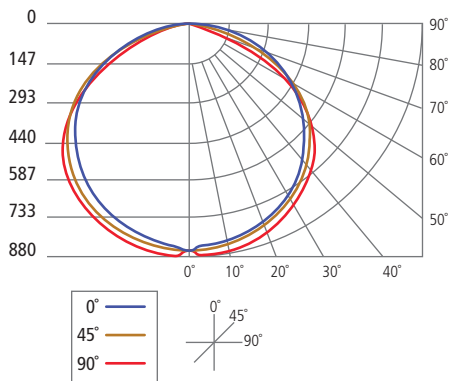
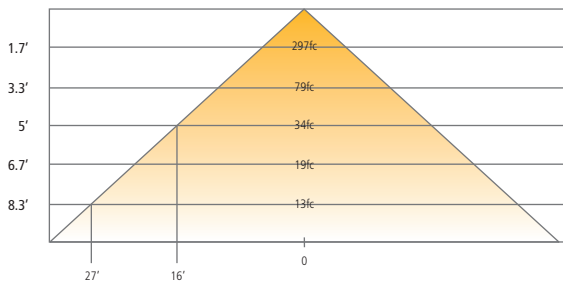
PHOTOMETRICS: MERGE FLUSH MOUNT

DESCRIPTION: Merge Flush Mount Direct LED High
4' Linear Channel, 90 CRI, 3000K

MODEL: FLS14H930W

INPUT POWER (WATTS): 47.5
 INPUT POWER FACTOR: 0.98
 ABSOLUTE LUMINOUS FLUX (LUMENS): 2731
 LUMEN EFFICACY (LUMENS PER WATT): 57.4

| ANGLE | 0° | 45° | 90° |
|-------|-----|-----|-----|
| 0° | 859 | 859 | 859 |
| 5° | 842 | 854 | 878 |
| 10° | 833 | 847 | 871 |
| 15° | 820 | 834 | 859 |
| 20° | 801 | 816 | 842 |
| 25° | 775 | 793 | 820 |
| 30° | 744 | 765 | 793 |
| 35° | 706 | 731 | 757 |
| 40° | 664 | 690 | 717 |
| 45° | 617 | 644 | 668 |
| 50° | 564 | 591 | 593 |
| 55° | 506 | 531 | 508 |
| 60° | 443 | 448 | 415 |
| 65° | 373 | 357 | 290 |
| 70° | 297 | 251 | 140 |
| 75° | 217 | 112 | 37 |
| 80° | 139 | 23 | 22 |
| 85° | 66 | 10 | 10 |
| 90° | 3 | 1 | 1 |



DESCRIPTION: Merge Flush Mount Direct LED Standard
4' Linear Channel, 90 CRI, 3000K

MODEL: FLS14S930W

INPUT POWER (WATTS): 28.9
 INPUT POWER FACTOR: 0.98
 ABSOLUTE LUMINOUS FLUX (LUMENS): 1782
 LUMEN EFFICACY (LUMENS PER WATT): 61.7

| ANGLE | 0° | 45° | 90° |
|-------|-----|-----|-----|
| 0° | 560 | 560 | 560 |
| 5° | 550 | 556 | 572 |
| 10° | 544 | 551 | 567 |
| 15° | 535 | 543 | 559 |
| 20° | 523 | 532 | 549 |
| 25° | 507 | 517 | 534 |
| 30° | 486 | 498 | 517 |
| 35° | 462 | 476 | 494 |
| 40° | 433 | 451 | 468 |
| 45° | 402 | 420 | 436 |
| 50° | 369 | 386 | 388 |
| 55° | 331 | 348 | 333 |
| 60° | 289 | 294 | 271 |
| 65° | 245 | 235 | 189 |
| 70° | 196 | 164 | 93 |
| 75° | 144 | 75 | 27 |
| 80° | 93 | 16 | 14 |
| 85° | 45 | 6 | 6 |
| 90° | 2 | 1 | 1 |

