

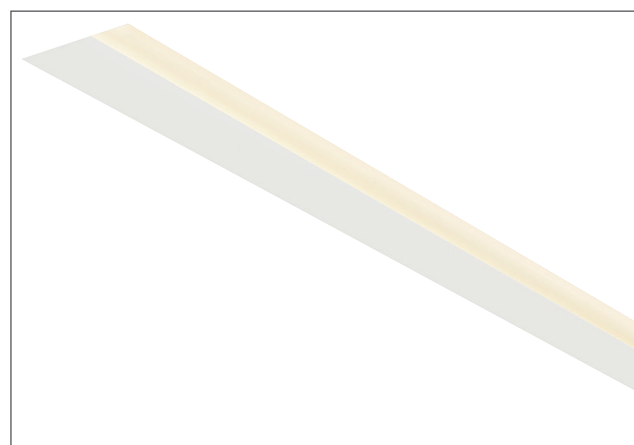
ELEMENT Merge 1.5 represents the marriage of a recessed linear LED system with a low-voltage track lighting system. Whether being used to highlight architectural elements, or deliver well-controlled general illumination, ELEMENT Merge 1.5 puts the focus on the room. Recessed lines of uniform, glare-free LED light can be designed to make 90° turns in the same plane or perpendicular transitions from ceiling to wall for enhanced architectural interest. Further, spot heads or pendants can be added directly into the channel at any point along its concealed low-voltage bus system for simultaneous accent or task illumination.

All ELEMENT Merge 1.5 components feature a beveled aperture to integrate seamlessly with architecture for sleek ceiling-to-fixture transitions. Available in 4', 6' and 8' lengths (with a number of connector options) for flanged, flangeless, or lay-in installation.

- Low profile design for use in 2x4 construction
- 3-Step or better color binning
- Internal reflector finished with high-reflectance matte, white paint for even light distribution & optimal efficiency
- IC airtight rated (EM housing Non-IC)

## SPECIFICATIONS

|                     | HIGH OUTPUT   | STANDARD OUTPUT       |
|---------------------|---|-----------------------|
| DELIVERED LUMENS    | 650 lms/ft  | 450 lms/ft            |
| WATTS               | 12 watts/ft   | 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%)<br>Lutron Hi-Lume Ecosystem Fade-To-Black or PWM (Down to 1%)<br>eldoLED 0-10V (Down to 0.1%)  |                       |
| TRANSITIONS         | Optional Illuminated 90° horizontal turns (same plane) or 90° ceiling-to-wall transitions   |                       |
| CEILING APPEARANCE  | Flangeless  |                       |
| 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        | Housing: 20 gauge sheet metal<br>Extrusion: 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 flangeless

## PERFORMANCE

### HIGH OUTPUT (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 (450 LPF)

| LINEAR CHANNEL | FIXTURE OUTPUT (LMS)* | WATTAGE |
|----------------|-----------------------|---------|
| 4 FT           | 1800                  | 28      |
| 6 FT           | 2700                  | 42      |
| 8 FT           | 3600                  | 56      |

\*REPRESENTS 3500K/80CRI

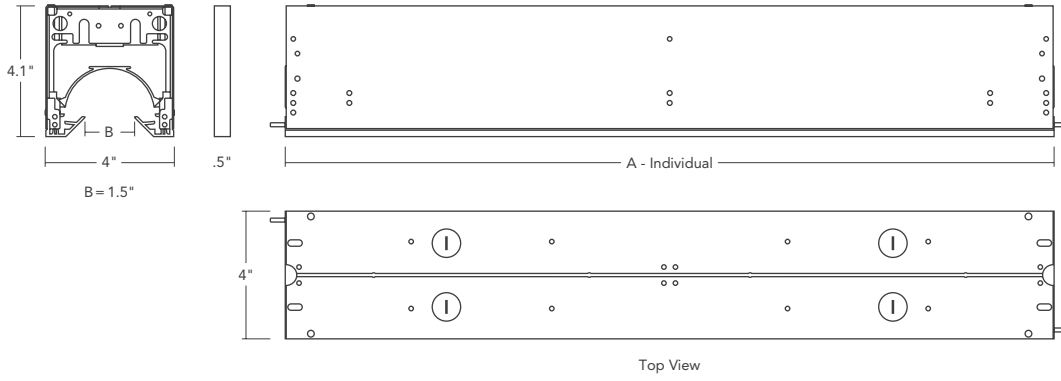
### Optional

- 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.

Notes: Typical 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.

## HOUSING



## 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

| SYSTEM | NOMINAL LENGTH | CEILING APPEARANCE     | OUTPUT                           | CRI/CCT           | FINISH        | HOUSING   | CONTROLS                            | OPTIONAL  |
|--------|----------------|------------------------|----------------------------------|-------------------|---------------|---|-------------------------------------|---|
| RLS1   | 4 4 FT         | RL RECESSED FLANGELESS | H HIGH OUTPUT, 650 LMS/FT        | 835 80 CRI, 3500K | W MATTE WHITE | I IC (ALL EXCEPT EM)                                    | ELV0 ELV / 0-10V DIMMING UNV†       | EM 120V EMERGENCY BATTERY BACK-UP W/ REMOTE TEST SWITCH (NON-IC ONLY)‡<br>EM2 277V EMERGENCY BATTERY BACK-UP W/ REMOTE TEST SWITCH (NON-IC ONLY)‡ |
|        | 6 6 FT         |                        |                                  | 927 90 CRI, 2700K |               |   | ELD0 ELDOLED 0.1% 0-10V LINEAR UNV† |   |
|        | 8 8 FT         |                        | S STANDARD OUTPUT, 450 LMS/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 0.1% ECO-SYSTEM FADE-TO-BLACK UNV† |                                     |   |

RLS1

RL

W

\*HL2W – TWO WIRE LOW-VOLTAGE ELECTRONIC DIMMING, 120 VOLT ONLY.  
†UNV = 120V/277V INPUT VOLTAGE.  
‡EM OPTION ONLY AVAILABLE ON STATIC WHITE (NO WARM DIM).

## FINISHING KIT

| SYSTEM | TYPE             | STYLE           | CEILING APPEARANCE     | FINISH        |
|--------|------------------|-----------------|------------------------|---------------|
| RLS1   | FK FINISHING KIT | 1 CLOSED ENDCAP | RL RECESSED FLANGELESS | W MATTE WHITE |
| RLS1   | FK               | 1               | RL                     | W             |

INCLUDES 2 ENDCAPS AND ALL NECESSARY MOUNTING HARDWARE.

## 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.

## PROJECT INFO

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

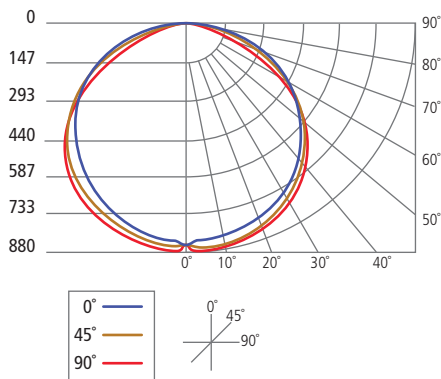
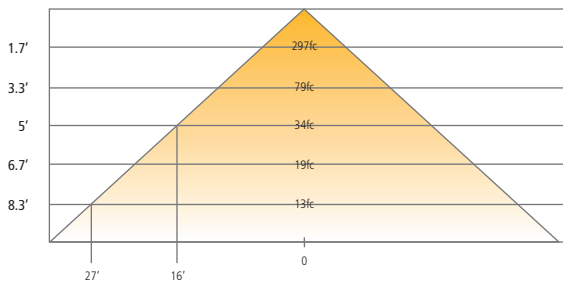
## PHOTOMETRICS: MERGE RECESSED

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

MODEL: RLS14RLH930W

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 Recessed Direct LED Standard  
4' Linear Channel, 90 CRI, 3000K

MODEL: RLS14RLS930W

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   |

