

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 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 2', 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
- Must order 44" 4L-Fixture for any total lay-in run lengths
- IC airtight rated (EM housing Non-IC)

## SPECIFICATIONS

DELIVERED LUMENS	700 lms/ft or 450 lms/ft
WATTS	12 watts/ft or 7 watts/ft
EFFICACY	58 l/w or 64 l/w (80CRI, 3500K)
CRI	80+, 90+
CCT OPTIONS	2700K, 3000K, 3500K or Warm Color Dimming (3000K-2000K)
VOLTAGE	120V or 277V (Concealed 10 gauge, low-voltage bus bar, order 12-volt remote transformer sold separately)
DIMMING	ELV, 0-10V, Lutron Hi-Lume
CEILING APPEARANCE	Lay-In T-Grid optimized for 9/16" or 15/16"
CEILING APERTURE	1.5" beveled
HOUSING	IC Airtight available in 2', 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 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

\*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



MERGE  
shown lay-in

## PERFORMANCE

### 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

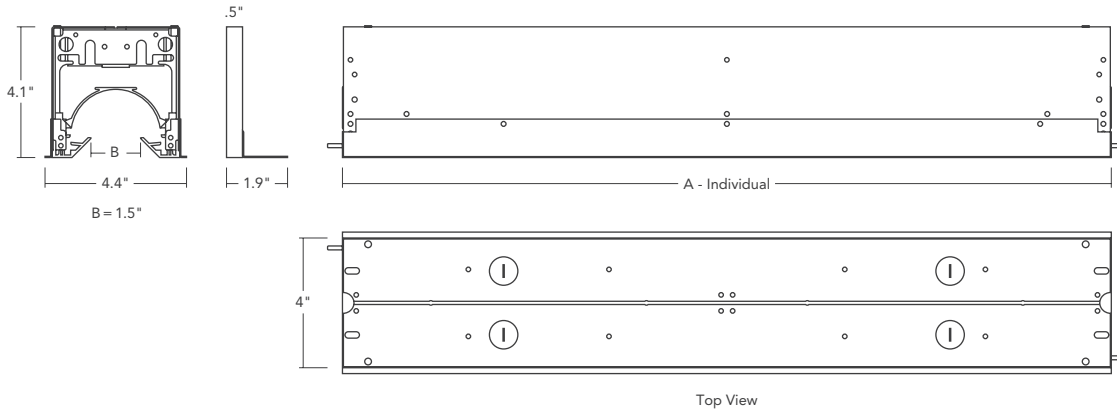
### Optional

- 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 test switch/indicator light.
  - 2' EM linear channel: 978 total lumens
  - 4', 6', & 8' EM linear channel: 1018 total lumens (illuminates 4' section of the 8' channel)

# MERGE™ 1.5

LAY-IN LINEAR CHANNELS

## HOUSING



## DIMENSIONS

	LENGTH (A)
2' INDIVIDUAL	24"
4' INDIVIDUAL	48"
6' INDIVIDUAL	72"
8' INDIVIDUAL	96"
4L-FIXTURE*	44"

\*Must purchase lay-in finishing kit. Includes 2 T-grid plates.  
4' minimum run length for lay-in installations. Must order 44" 4L-Fixture for any other total lay-in run lengths.

	TOTAL LAY-IN RUN LENGTH
4L-FIXTURE*	48"
2' INDIVIDUAL + 4L-FIXTURE*	72"
4' INDIVIDUAL + 4L-FIXTURE*	96"
6' INDIVIDUAL + 4L-FIXTURE*	120"

\*Must purchase lay-in finishing kit. Includes 2 T-grid plates.  
4' minimum run length for lay-in installations. Must order 44" 4L-Fixture for any other total lay-in run lengths.

## GRIDS

SYSTEM	NOMINAL LENGTH	CEILING APPEARANCE	CRI / COLOR TEMPERATURE	FINISH	HOUSING	CONTROLS	OPTIONAL
RLS1	2 2 FT	LI LAY-IN (T-GRID)*	H835 HIGH OUTPUT, 80 CRI, 3500K	W MATTE WHITE	I IC (ALL EXCEPT EM) N NON-IC (EM ONLY)	ELV0 ELV / 0-10V DIMMING UNV†	LEAVE BLANK IF NO DESIRED OPTIONS EM 120V EMERGENCY BATTERY BACK-UP W/ REMOTE TEST SWITCH (NON-IC ONLY)‡ EM2 277V EMERGENCY BATTERY BACK-UP W/ REMOTE TEST SWITCH (NON-IC ONLY)‡
	4 4 FT		H927 HIGH OUTPUT, 90 CRI, 2700K			ELD0 ELDOLED 0.1% 0-10V LINEAR UNV†	
	6 6 FT		H930 HIGH OUTPUT, 90 CRI, 3000K			ELD0A ELDOLED 0.1% 0-10V LOGARITHMIC UNV†	
	8 8 FT		H935 HIGH OUTPUT, 90 CRI, 3500K			ELD1 ELDOLED 1% 0-10V LINEAR UNV†	
	4L 4 FT (44" LAY-IN ONLY)*		H9WD HIGH OUTPUT, 90 CRI, WARM DIM/3000-2000K			ELD1A ELDOLED 1% 0-10V LOGARITHMIC UNV†	
			S835 STANDARD OUTPUT, 80 CRI, 3500K			HL2W LUTRON HI-LUME 1% 2 WIRE/PWM*‡	
			S927 STANDARD OUTPUT, 90 CRI, 2700K			HLECO LUTRON HI-LUME 1% ECO-SYSTEM FADE-TO-BLACK UNV†	
			S930 STANDARD OUTPUT, 90 CRI, 3000K				
			S935 STANDARD OUTPUT, 90 CRI, 3500K				
	S9WD STANDARD OUTPUT, 90 CRI, WARM DIM/3000-2000K						

RLS1

LI

W

\*MUST ORDER 44" FIXTURE FOR ANY LAY-IN RUN. \*\*HL2W – TWO WIRE LOW-VOLTAGE ELECTRONIC DIMMING, 120 VOLT ONLY. †UNV = 120V/277V INPUT VOLTAGE. ‡EM OPTION ONLY AVAILABLE ON STATIC WHITE LINEAR CHANNELS (NO 9WD).

## FINISHING KIT

SYSTEM	TYPE	STYLE	CEILING APPEARANCE	FINISH
RLS1	FK FINISHING KIT	1 CLOSED ENDCAP	LI LAY-IN (T-GRID)	W MATTE WHITE
RLS1	FK	1	LI	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

**ELEMENT**  
by Tech Lighting†

GENERATION BRANDS

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## PHOTOMETRICS: MERGE

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

MODEL: RLS14RLS930W

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

