

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 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	650 lms/ft or 450 lms/ft
WATTS	12 watts/ft or 7 watts/ft
EFFICACY	54 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 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 (650 LPF)

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

*REPRESENTS 3500K/80CRI

DOWNLIGHT (450 LPF)

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

*REPRESENTS 3500K/80CRI

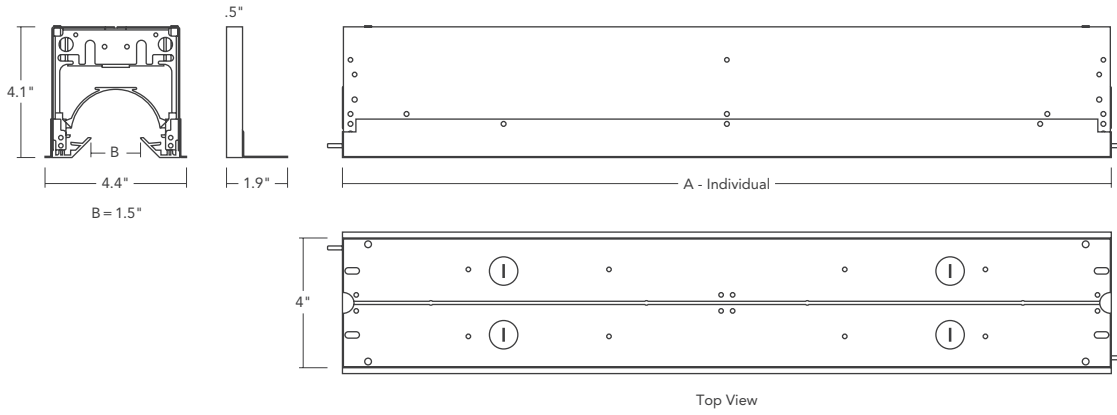
Optional

- 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)

MERGE™ 1.5

LAY-IN LINEAR CHANNELS

HOUSING



DIMENSIONS

	LENGTH (A)
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"
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	OUTPUT	CRI/CCT	FINISH	HOUSING	CONTROLS	OPTIONAL
RLS1	4 4 FT	LI LAY-IN (T-GRID)*	H HIGH OUTPUT, 650 LMS/FT S STANDARD OUTPUT, 450 LMS/FT	835 80 CRI, 3500K	W MATTE WHITE	I IC (ALL EXCEPT EM) N NON-IC (EM ONLY)	ELV0 ELV / 0-10V DIMMING UNV†	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)‡
	6 6 FT			927 90 CRI, 2700K			ELD0 ELDOLED 0.1% 0-10V LINEAR UNV†	
	8 8 FT			930 90 CRI, 3000K			ELD0A ELDOLED 0.1% 0-10V LOGARITHMIC UNV†	
	4L 4 FT (44" LAY-IN ONLY)*			935 90 CRI, 3500K 9WD 90 CRI, WARM DIM, 3000-2000K			ELD1 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 0.1% ECO-SYSTEM FADE-TO-BLACK UNV†	

RLS1

LI

W

*ALL LAY-IN (T-GRID) RUNS MUST INCLUDE ONLY ONE '4L' REGARDLESS OF THE RUN LENGTH, UNLESS LINEAR RUN IS BOUNDED BY L-CONNECTORS ON BOTH ENDS.

**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	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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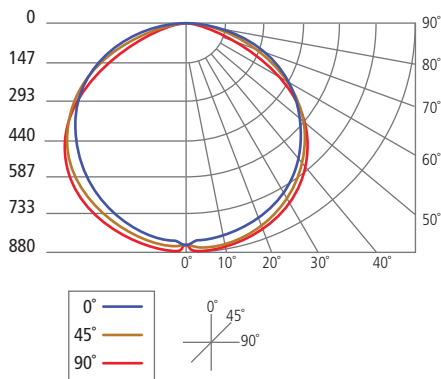
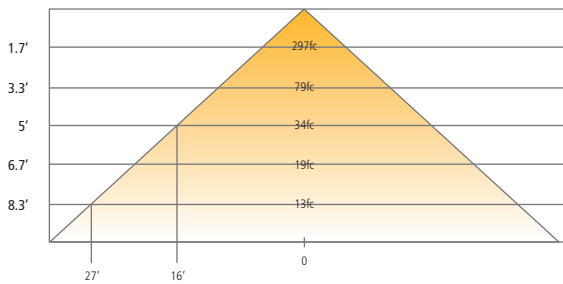
PHOTOMETRICS: MERGE RECESSED

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

MODEL: RLS14LIH930W

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: RTL514LI5930

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

