

Project:		Catalog #:		Type:	
Prepared by:		Notes:		Date:	

E3SLA

LED STAIRWELL, STRIP & SURFACE MOUNT
Fixed CCT | 2' & 4'
5-yr Warranty



OVERVIEW

Energetic Lighting's E3SLA stairwell, strip and surface mount series is suitable for use in a broad range of commercial and industrial applications. Utilizing today's latest innovative LED solutions and technologies, this series provides the perfect blend of design, performance and reliability at a superior value to the customer.

An extremely versatile product thanks to its clean and modern design that mimics traditional T8 strip lights. Available in multiple lumen outputs and CCT options. Engineered to simplify installation for end-to-end | continuous row mounting using our ezLINK connector system to eliminate the hassle and added cost of manual thru wiring. Access to drivers and wiring is all tool-less. Durable construction that consists of a steel housing with ezLINK polymer end caps.

The E3SLA is well suited for many renovation and new construction applications including stairwells, hallways, corridors, storage areas, closets, warehouses, under canopy, etc. Provides quality all-purpose reduced glare illumination where needed with maximum energy savings.

KEY FEATURES

- ezLINK multiple fixtures end-to-end | continuous row (ezLINK connector is included)
- Designed for easy wall & surface mounting
- Mimics traditional T8 design w/ a more modern design (single & double strip configurations available)
- High efficiency polymer diffusing lens for no pixelation
- 120-277V and utilizes 0-10V drivers as standard
- 84.9% lumen maintenance @ 54,000 hours - L85/54,000 (4' units per IES TM21) (2' units L89/54,000 per IES TM21)
- Projected L70 @ 116,000 hours (4' units per IES TM21) (2' units 171,000 hours per IES TM21)
- Available in 3500K & 4000K @ 84 CRI
- 1086-4529 lms, 10-40W @ 106-122 LPW
- Suitable for damp location use
- All configurations are DLC Standard qualified

SPECIFICATIONS & FEATURES

Construction

Housing is made from die-formed steel for accurate and repeatable construction. All painted components are high reflectance white powder coat for improved optical performance and visual aesthetic. Contractor friendly design includes ezLINK 5-pin connectors at each end for simple and quick end-to-end | continuous row fixture installation (connectors included). Drivers are easily accessed by removing the tool-less LED lens and housing array. Lens assembly designed to mimic the look and feel of traditional T8 strip lights.

Optics

Uniform horizontal and vertical illumination is achieved by the coupling of the LED platform with a performance reflector system and high efficiency molded polymer diffusing lens that mimics the look and feel of traditional T8 strip lights. The optical system creates a soft and uniform visual appearance with no LED pixelation for superior visual comfort.

Electrical

Efficient long life LED platform is coupled with 50,000 hour rated drivers to help deliver optimal performance and quality illumination for the extended life of the luminaire. 84.9% LED lumen maintenance at 54,000 hours (L85/54,000) per IES TM21 (4' units). Projected L70 @ 116,000 hours (4' units). 89.6% LED lumen maintenance at 54,000 hours (L90/54,000) per IES TM21 (2' units). Projected L70 @ 171,000 hours (2' units). Drivers are available for 120-277V applications and are 0-10V dimming compatible standard.

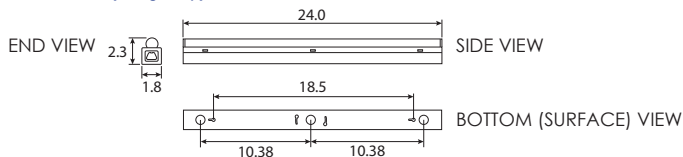
Compliance & Certification

All luminaires are built to UL1598 standards with appropriate UL/cUL labels. Suitable for damp location use. Can be applied in accordance with NFPA 101 requirements for means of egress illumination. Product must be applied and installed properly, including FC measurements to meet NFPA 101 requirements. Suitable for use in clothes closets when installed in accordance with the NEC 410.16 spacing requirements. Adheres to LM79, LM80 and TM21 industry standards for performance and lifetime calculations. DesignLights Consortium® (DLC) qualified product. Refer to DLC website at www.designlights.org/QPL to confirm which specific product configurations are qualified.

Warranty

The E3SLA series of luminaires ships with Energetic's 5-year standard warranty. (Terms & Conditions apply).

Dimensions (2' single strip)



Load Information

Power Factor	0.90
THD	9%
Low Temp	-20° C
Max Temp	50° C
Unit Weight	1.8 lbs (2', 10W)
Unit Weight	2.2 lbs (4', 20W)
Unit Weight	5.4 lbs (4', 40W)

Shipping Information

Size	Weight ^{1,2,3}	Pallet ^{4,5,6}
2' (10W)	2.1 lbs	450 per (48"l x 40"w x 88"h)
4' (20W)	3.7 lbs	240 per (51"l x 41"w x 79"h)
4' (40W)	6.0 lbs	168 per (51"l x 41"w x 79"h)

1. 2' 10W Case pack weighs 13.9 lbs (6 units/case pack).
2. 4' 20W Case pack weighs 24.2 lbs (6 units/case pack).
3. 4' 40W Case pack weighs 38.6 lbs (6 units/case pack).
4. There are 75 case packs per pallet (2' 10W).
5. There are 40 case packs per pallet (4' 20W).
6. There are 28 case packs per pallet (4' 40W).

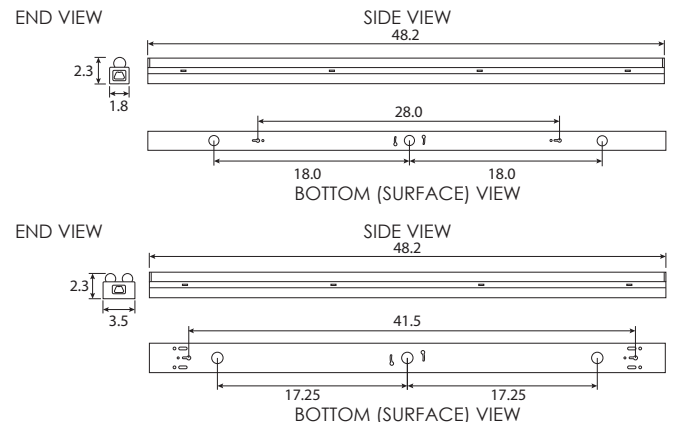
Lumen Maintenance (2' configuration)

Ambient Temperature	TM-21 Lumen Maintenance (54,000 hours)	Theoretical L70 (Hours)
25° C	> 89.6%	171,000

Lumen Maintenance (4' configurations)

Ambient Temperature	TM-21 Lumen Maintenance (54,000 hours)	Theoretical L70 (Hours)
25° C	> 84.9%	116,000

Dimensions (cont'd)



STOCK ORDERING INFORMATION (3500K, base fixture only)

Catalog Logic	Order #	Size/Config	Lumens	Wattage	LPW	Color Temp	CRI	Voltage	Dimming	DLC	Pallet Qty
E3SLA40D4-835	30030	4' double strip	4529	39.3	115	3500K	84	120-277	0-10V ¹	Standard	168

STOCK ORDERING INFORMATION (4000K, base fixture only)

Catalog Logic	Order #	Size/Config	Lumens	Wattage	LPW	Color Temp	CRI	Voltage	Dimming	DLC	Pallet Qty
E3SLA10D2-840	30034	2' single strip	1086	10.2	106	4000K	84	120-277	0-10V ¹	Standard	450
E3SLA20D4-840	30032	4' single strip	2387	19.5	122	4000K	84	120-277	0-10V ¹	Standard	240
E3SLA40D4-840	30029	4' double strip	4451	39.8	112	4000K	84	120-277	0-10V ¹	Standard	168

Notes:

1. 0-10V dimming driver standard, leads are capped from the factory, dims to 10%.

ACCESSORIES (must be ordered separately)

Catalog Logic	Order #	Description
EZL12	30035	12" flexible ezLINK cable
EZL48	30036	48" flexible ezLINK cable
JBCP	30037	Decorative round J-Box cover plate
EZLBK ¹	30038	ezLINK support bracket (for suspension mounting)

Notes:

1. Suspension mounting hardware supplied by others.

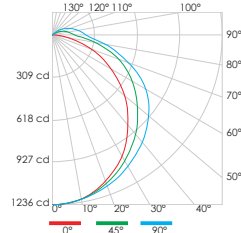
4' Double Strip, 3500K, 40W, PHOTOMETRIC DATA

Luminaire Data

Cat Logic: E3SLA40D4D4-835
Test Report: E3SLA40D4D4-835.1ES
CCT: 3500
Lamp Type: LED
Lumens: 4529
Input Watts: 10.2
Efficacy: 106
Spacing: 0° = 1.22 90° = 1.34

Photometric values based on tests performed in compliance with LM-79.

Indoor Candela Plot



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	968	21.4
0-40	1600	35.3
0-60	2943	65.0
0-90	4179	92.3
0-180	4529	100.0

Candlepower

Angle	0°	90°
0	1233	1233
5	1227	1226
10	1208	1213
15	1175	1193
20	1131	1168
25	1074	1138
30	1008	1102
35	934	1063
40	852	1017
45	765	967
50	674	913
55	579	856
60	484	783
65	387	693
70	290	588
75	197	485
80	110	387
85	39	298
90	3	242

Coefficients of Utilization

Effective Floor Cavity Reflectance 20%

rc	80%				70%				50%				30%				10%				0%			
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	92						
0	105	99	94	90	101	96	92	88	90	87	83	85	82	79	80	78	76	73						
1	95	85	78	71	91	83	76	70	78	72	67	73	69	64	69	65	62	59						
2	86	74	65	58	82	72	64	57	68	61	55	64	58	53	60	56	51	49						
3	78	65	56	49	75	63	55	48	60	52	46	57	50	45	54	48	44	41						
4	72	58	49	42	69	56	48	41	53	46	40	51	44	39	48	42	38	35						
5	66	52	43	36	63	51	42	36	48	40	35	46	39	34	43	37	33	30						
6	61	47	38	32	59	46	37	31	44	36	30	41	35	30	39	33	29	27						
7	57	43	34	28	55	42	33	28	40	32	27	38	31	26	36	30	26	24						
8	53	39	31	25	51	38	30	25	37	29	24	35	28	24	33	27	23	21						
9	50	36	28	23	48	35	28	22	34	27	22	32	26	21	31	25	21	19						
10																								

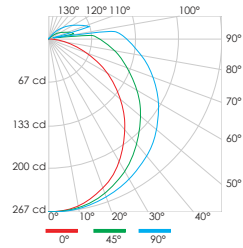
2' Single Strip, 4000K, 10W, PHOTOMETRIC DATA

Luminaire Data

Cat Logic: E3SLA10D2-840
Test Report: E3SLA10D2-840.IES
CCT: 4000
Lamp Type: LED
Lumens: 1086
Input Watts: 10.2
Efficacy: 106
Spacing: 0° = 1.24 90° = 1.42

Photometric values based on tests performed in compliance with LM-79.

Indoor Candela Plot



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	209	19.3
0-40	346	31.9
0-60	641	59.1
0-90	972	89.5
0-180	1086	100.0

Candlepower

Angle	0°	90°
0	267	267
5	266	267
10	262	266
15	255	263
20	245	260
25	233	255
30	219	250
35	203	243
40	185	236
45	166	227
50	146	218
55	126	208
60	105	196
65	84	185
70	63	172
75	43	160
80	25	147
85	10	133
90	3	120

Coefficients of Utilization

rc	Effective Floor Cavity Reflectance 20%											
	80%				70%				50%			
rw	70	50	30	10	70	50	30	10	50	30	10	0
RCR												
0	117	117	117	117	113	113	113	113	105	105	105	99
1	103	97	91	87	99	94	89	84	87	83	80	82
2	93	83	75	68	89	80	73	66	75	69	63	70
3	84	72	63	55	80	69	61	54	65	58	52	61
4	76	63	54	46	73	61	52	45	57	50	43	54
5	70	56	46	39	67	54	45	39	51	43	37	48
6	64	50	41	34	62	49	40	33	46	38	32	43
7	60	45	36	30	57	44	35	29	42	34	28	39
8	55	41	32	26	53	40	32	26	38	30	25	36
9	52	38	29	24	50	37	29	23	35	28	23	33
10	48	35	27	21	47	34	26	21	32	25	20	31

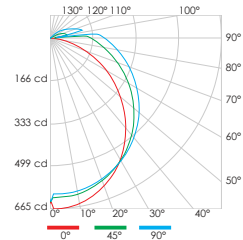
4' Single Strip, 4000K, 20W, PHOTOMETRIC DATA

Luminaire Data

Cat Logic: E3SLA20D4-840
Test Report: E3SLA20D4-840.IES
CCT: 4000
Lamp Type: LED
Lumens: 2387
Input Watts: 19.5
Efficacy: 122
Spacing: 0° = 1.28 90° = 1.30

Photometric values based on tests performed in compliance with LM-79.

Indoor Candela Plot



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	232	9.7
0-40	813	20.7
0-60	1482	62.1
0-90	2175	91.1
0-180	2387	100.0

Candlepower

Angle	0°	90°
0	633	633
5	662	604
10	653	601
15	635	593
20	611	581
25	579	566
30	543	548
35	501	526
40	456	503
45	407	476
50	356	448
55	305	418
60	253	387
65	201	356
70	150	325
75	102	295
80	58	265
85	22	237
90	3	210

Coefficients of Utilization

rc	Effective Floor Cavity Reflectance 20%											
	80%				70%				50%			
rw	70	50	30	10	70	50	30	10	50	30	10	0
RCR												
0	117	117	117	117	113	113	113	113	106	106	106	100
1	104	98	93	88	100	95	90	86	89	85	81	83
2	94	84	76	70	90	81	74	68	76	70	65	72
3	85	73	64	57	81	71	62	56	66	59	54	62
4	77	64	55	48	74	62	54	47	59	51	45	55
5	71	57	48	41	68	55	47	40	52	45	39	49
6	65	51	42	35	63	50	41	35	47	39	34	45
7	60	46	37	31	58	45	37	30	43	35	30	41
8	56	42	33	27	54	41	33	27	39	32	26	37
9	52	39	30	24	51	38	30	24	36	29	24	34
10	49	36	28	22	47	35	27	22	33	26	21	32

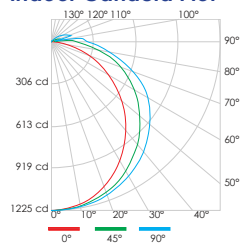
4' Double Strip, 4000K, 40W, PHOTOMETRIC DATA

Luminaire Data

Cat Logic: E3SLA40D4-840
Test Report: E3SLA40D4-840.IES
CCT: 4000
Lamp Type: LED
Lumens: 4451
Input Watts: 39.8
Efficacy: 112
Spacing: 0° = 1.22 90° = 1.38

Photometric values based on tests performed in compliance with LM-79.

Indoor Candela Plot



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	960	21.6
0-40	1589	35.7
0-60	2926	65.7
0-90	4178	93.9
0-180	4451	100.0

Candlepower

Angle	0°	90°
0	1222	1222
5	1217	1223
10	1196	1216
15	1162	1202
20	1118	1182
25	1060	1154
30	993	1122
35	921	1085
40	841	1041
45	755	990
50	665	935
55	574	876
60	480	810
65	387	729
70	294	632
75	204	529
80	123	432
85	57	344
90	16	264

Coefficients of Utilization

Effective Floor Cavity Reflectance 20%																
rc	80%				70%				50%				30%			
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30
RCR																
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96
1	105	99	94	90	102	97	92	88	91	87	84	86	83	80	81	79
2	95	85	78	71	91	83	76	70	78	72	67	74	69	65	70	66
3	86	74	65	58	83	72	64	57	68	61	55	65	59	54	61	56
4	78	65	56	49	75	64	55	48	60	53	47	57	51	45	54	49
5	72	58	49	41	69	57	48	41	54	46	40	51	44	39	48	43
6	66	52	43	36	64	51	42	35	48	40	35	46	39	34	44	38
7	61	47	38	32	59	46	37	31	44	36	30	42	35	30	40	34
8	57	43	34	28	55	42	33	28	40	32	27	38	31	27	37	31
9	53	39	31	25	51	38	30	25	37	29	24	35	29	24	34	28
10	50	36	28	23	48	35	28	22	34	27	22	33	26	22	31	25

NOTES: