energetic®
Smarter lighting

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

E5SLB

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

OVERVIEW

Energetic Lighting's E5SLB 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 all purpose design and durable construction that consists of a steel housing with tool-less access to the driver and LED boards and multiple lumen output and CCT options.

The E5SLB is well suited for many renovation and new construction applications including stairwells, hallways, restrooms, storage areas, closets, warehouses, under canopy, etc. Providing quality all-purpose reduced glare illumination where needed with maximum energy savings.

KEY FEATURES

- Designed for easy wall & surface mounting
- Multiple conduit knockouts on all four sides
- Full fixture length wiring access for installation flexibility
- High efficiency polymer diffusing lens for no pixelation
- Utilizes 0-10V drivers as standard
- 89.0% lumen maintenance @ 60,000 hours - L89/60,000 (per IES TM21)
- Projected L70 @ 180,000 hours (per IES TM21)
- Available in 4000K & 5000K @ 83 CRI
- 2793 lms, 19.4W @ 144 LPW (4', 4000K)
- 5098 lms, 34.9W @ 146 LPW (4', 4000K)
- 5181 lms, 34.9W @ 148 LPW (4', 5000K)
- All configurations are DLC Premium 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 multiple knockouts on all four sides for easier installation, including end-to-end and thru-branch wiring. LED boards and drivers are easily accessed by removing the tool-less LED lens assembly or by removing the tool-less housing array. Housing designed for full fixture length wiring access for added installation flexibility.

Load Information

Power Factor	0.92
THD	11%
Low Temp Start	-20° C
Max Temp	40° C
Unit Weight	4.3 lbs (4')

Shipping Information

Size	Weight[1]	Pallet[2] (51"l x 40"w x 80"h)
4'	5.1 lbs	144 per

1. Case pack weighs 36 lbs (6 units/case pack).
2. There are 24 case packs per pallet.

Optics

Uniform horizontal and vertical illumination is achieved by the coupling of the LED platform with a performance reflector system and high efficiency curved extruded polymer diffusing lens that can be removed without tools. The optical system creates a soft and uniform visual appearance with no LED pixelation for superior visual comfort.

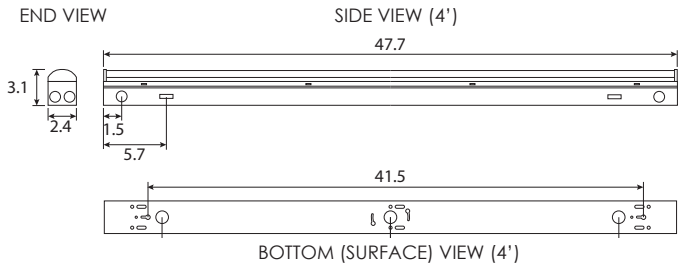
Lumen Maintenance

Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours)	Theoretical L70 (Hours)
25° C	> 89.0%	180,000

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. 89.0% LED lumen maintenance at 60,000 hours (L89/60,000) per IES TM21. Projected L70 @ 180,000 hours. Drivers are available for 120-277V applications and are 0-10V dimming compatible standard. Dims to 15%.

Dimensions



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 E5SLB series of luminaires ships with Energetic's 10-year standard warranty. (Terms & Conditions apply).

Energetic Lighting
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Specifications subject to change without notice.
All values are nominal or typical values, measured under laboratory conditions @ 25° C.
Actual performance may vary slightly as a result of end-user environment/application.

STOCK ORDERING INFORMATION (4000K, base fixture only)

Catalog Logic	Order #	Size	Lumens	Wattage	LPW	Color Temp	CRI	Voltage	Dimming	DLC	Pallet Qty
E5SLB20D4-840	30095	4'	2793	19.4	144	4000K	83	120-277	0-10V[1]	Premium	144
E5SLB35D4-840	30096	4'	5098	34.9	146	4000K	83	120-277	0-10V[1]	Premium	144

STOCK ORDERING INFORMATION (5000K, base fixture only)

Catalog Logic	Order #	Size	Lumens	Wattage	LPW	Color Temp	CRI	Voltage	Dimming	DLC	Pallet Qty
E5SLB35D4-850	30097	4'	5181	34.9	148	5000K	83	120-277	0-10V[1]	Premium	144

Notes:
1. 0-10V dimming driver standard, leads are capped from the factory, dims to 15%.

ACCESSORIES (must be ordered separately)

Catalog Logic	Order #	Description
E5SL-JKIT[1,2]	30100	Joining bracket kit - plate & knockout connectors
JBCP	30037	Decorative round J-Box cover plate

Notes:
1. Can be used for end-to-end connection for both surface & suspension mounting.
2. Suspension mounting hardware supplied by others.

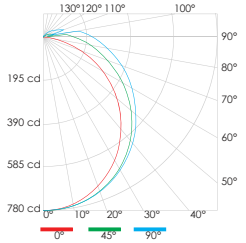
4000K, 20W PHOTOMETRIC DATA

Luminaire Data

Cat Logic: E5SLB20D4-840
Test Report: E5SLB20D4-840.IES
CCT: 4000
Lamp Type: LED
Lumens: 2793
Input Watts: 19.4
Efficacy: 144
Spacing: 0° = 1.24 90° = 1.32

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

Indoor Candela Plot



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	609	21.8
0-40	1003	35.9
0-60	1817	65.0
0-90	2582	92.4
0-180	2793	100.0

Candlepower

Angle	0°	90°
0	779	779
5	774	777
10	762	771
15	742	757
20	714	739
25	679	716
30	639	688
35	593	656
40	543	621
45	490	583
50	432	542
55	373	500
60	311	457
65	248	414
70	184	372
75	122	330
80	64	290
85	19	252
90	0.3	217

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	0
RCR																		
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	92
1	105	99	94	89	101	96	91	87	90	86	83	85	82	79	80	78	75	73
2	94	85	78	71	91	83	76	70	78	72	67	73	68	64	69	65	62	59
3	86	74	65	58	82	72	64	57	68	61	55	64	58	53	61	56	51	49
4	78	65	56	49	75	64	55	48	60	53	47	57	50	45	54	48	44	41
5	72	58	49	42	69	57	48	41	54	46	40	51	44	39	48	42	38	35
6	66	52	43	36	64	51	42	36	48	41	35	46	39	34	44	38	33	31
7	61	47	38	32	59	46	38	31	44	36	31	42	35	30	40	34	29	27
8	57	43	34	28	55	42	34	28	40	33	27	38	32	27	36	31	26	24
9	53	39	31	25	51	39	31	25	37	30	25	35	29	24	34	28	23	22
10	50	36	28	23	48	36	28	23	34	27	22	33	26	22	31	25	21	19

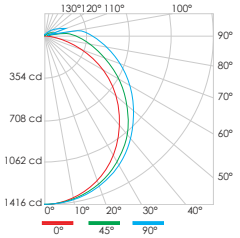
4000K, 35W PHOTOMETRIC DATA

Luminaire Data

Cat Logic:	E5SLB35D4-840
Test Report:	E5SLB35D4-840.IES
CCT:	4000
Lamp Type:	LED
Lumens:	5098
Input Watts:	34.9
Efficacy:	146
Spacing:	0^{o} = 1.22 90^{o} = 1.32

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

Indoor Candela Plot



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1107	21.7
0-40	1824	35.8
0-60	3309	64.9
0-90	4709	92.4
0-180	5098	100.0

Candlepower

Angle	0°	90°
0	1414	1414
5	1404	1411
10	1379	1399
15	1342	1375
20	1291	1341
25	1226	1299
30	1155	1249
35	1073	1188
40	982	1123
45	886	1053
50	783	978
55	675	902
60	563	825
65	449	748
70	333	672
75	219	598
80	115	527
85	34	460
90	0.7	398

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	0
RCR																		
0	**117**	**117**	**117**	**117**	**114**	**114**	**114**	**114**	**107**	**107**	**107**	**101**	**101**	**101**	**95**	**95**	**95**	**92**
1	**105**	**99**	**94**	**89**	**101**	**96**	**91**	**87**	**90**	**86**	**83**	**85**	**82**	**79**	**80**	**78**	**75**	**73**
2	**94**	**85**	**77**	**71**	**91**	**83**	**76**	**70**	**78**	**72**	**67**	**73**	**68**	**64**	**69**	**65**	**62**	**59**
3	**86**	**74**	**65**	**58**	**82**	**72**	**64**	**57**	**68**	**61**	**55**	**64**	**58**	**53**	**60**	**56**	**51**	**49**
4	**78**	**65**	**56**	**49**	**75**	**63**	**55**	**48**	**60**	**52**	**47**	**57**	**50**	**45**	**54**	**48**	**44**	**41**
5	**72**	**58**	**49**	**42**	**69**	**57**	**48**	**41**	**53**	**46**	**40**	**51**	**44**	**39**	**48**	**42**	**38**	**35**
6	**66**	**52**	**43**	**36**	**64**	**51**	**42**	**36**	**48**	**40**	**35**	**46**	**39**	**34**	**43**	**38**	**33**	**31**
7	**61**	**47**	**38**	**32**	**59**	**46**	**37**	**31**	**44**	**36**	**31**	**42**	**35**	**30**	**40**	**34**	**29**	**27**
8	**57**	**43**	**34**	**28**	**55**	**42**	**34**	**28**	**40**	**33**	**27**	**38**	**31**	**27**	**36**	**30**	**26**	**24**
9	**53**	**39**	**31**	**25**	**51**	**38**	**30**	**25**	**37**	**30**	**24**	**35**	**29**	**24**	**34**	**28**	**23**	**21**
10	**50**	**36**	**28**	**23**	**48**	**35**	**28**	**23**	**34**	**27**	**22**	**32**	**26**	**22**	**31**	**25**	**21**	**19**

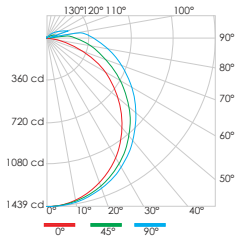
5000K, 35W PHOTOMETRIC DATA

Luminaire Data

Cat Logic:	E5SLB35D4-850
Test Report:	E5SLB35D4-850.IES
CCT:	5000
Lamp Type:	LED
Lumens:	5181
Input Watts:	34.9
Efficacy:	148
Spacing:	0^{o} = 1.22 90^{o} = 1.32

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

Indoor Candela Plot



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	527	21.7
0-40	1854	35.8
0-60	3363	64.9
0-90	4786	92.4
0-180	5181	100.0

Candlepower

Angle	0°	90°
0	1437	1437
5	1427	1434
10	1402	1422
15	1364	1397
20	1312	1363
25	1246	1321
30	1174	1269
35	1091	1208
40	998	1142
45	900	1070
50	795	994
55	686	917
60	572	838
65	457	760
70	338	683
75	223	608
80	117	536
85	34	468
90	0.8	404

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	0
RCR																		
0	**117**	**117**	**117**	**117**	**114**	**114**	**114**	**114**	**107**	**107**	**107**	**101**	**101**	**101**	**95**	**95**	**95**	**92**
1	**105**	**99**	**94**	**89**	**101**	**96**	**91**	**87**	**90**	**86**	**83**	**85**	**82**	**79**	**80**	**78**	**75**	**73**
2	**94**	**85**	**78**	**71**	**91**	**83**	**76**	**70**	**78**	**72**	**67**	**73**	**68**	**64**	**69**	**65**	**62**	**59**
3	**86**	**74**	**65**	**58**	**82**	**72**	**64**	**57**	**68**	**61**	**55**	**64**	**58**	**53**	**60**	**56**	**51**	**49**
4	**78**	**65**	**56**	**49**	**75**	**63**	**55**	**48**	**60**	**52**	**47**	**57**	**50**	**45**	**54**	**48**	**44**	**41**
5	**72**	**58**	**49**	**42**	**69**	**57**	**48**	**41**	**54**	**46**	**40**	**51**	**44**	**39**	**48**	**42**	**38**	**35**
6	**66**	**52**	**43**	**36**	**64**	**51**	**42**	**36**	**48**	**40**	**35**	**46**	**39**	**34**	**43**	**38**	**33**	**31**
7	**61**	**47**	**38**	**32**	**59**	**46**	**37**	**31**	**44**	**36**	**31**	**42**	**35**	**30**	**40**	**34**	**29**	**27**
8	**57**	**43**	**34**	**28**	**55**	**42**	**34**	**28**	**40**	**33**	**27**	**38**	**31**	**27**	**36**	**30**	**26**	**24**
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10	**50**	**36**	**28**	**23**	**48**	**35**	**28**	**23**	**34**	**27**	**22**	**32**	**26**	**22**	**31**	**25**	**21**	**19**

NOTES:

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