

|              |  |            |  |       |  |
|--------------|--|------------|--|-------|--|
| 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.

#### 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.

#### 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%.

#### 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](http://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).

#### 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

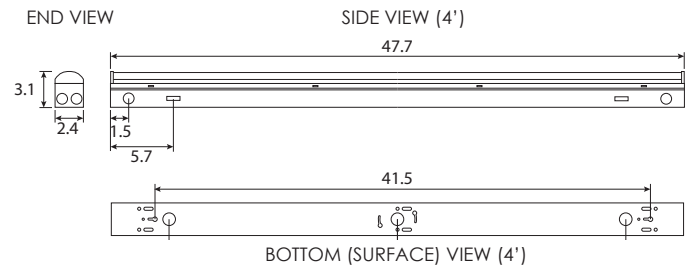
| Size | Weight <sup>1</sup> | Pallet <sup>2</sup> (51" x 40" w x 80" h) |
|------|---------------------|---|
| 4'   | 5.1 lbs             | 144 per                                   |

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

#### Lumen Maintenance

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

#### Dimensions



**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'   | 2700   | 19.4    | 135 | 4000K      | 83  | 120-277 | 0-10V <sup>1</sup> | Premium | 144        |
| E5SLB35D4-840 | 30096   | 4'   | 4700   | 34.9    | 135 | 4000K      | 83  | 120-277 | 0-10V <sup>1</sup> | 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'   | 5000   | 34.9    | 135 | 5000K      | 83  | 120-277 | 0-10V <sup>1</sup> | 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 <sup>1,2</sup> | 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.

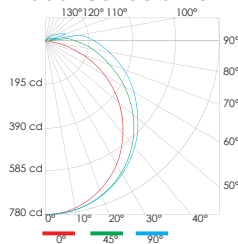
**4000K, 20W PHOTOMETRIC DATA**

**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**

| rc         | 80% |     | 70% |     |     |     | 50% |     |     |     | 30% |     |     |     | 10% |    |    |    | 0% |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|
|            | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 | 0  |    |
| <b>RCR</b> |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |
| 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 |    |

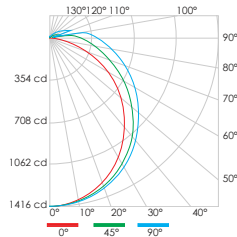
**4000K, 35W PHOTOMETRIC DATA**

**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° = 1.22 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  | 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% |    |    |    |    |    |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|----|----|----|----|----|----|----|----|----|
|            | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50 | 30 | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| <b>RCR</b> |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |     |    |    |    |    |    |    |    |    |    |
| 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 |    |    |    |    |    |    |    |    |

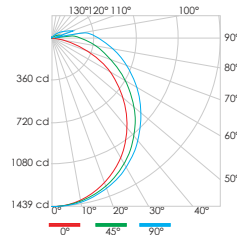
**5000K, 35W PHOTOMETRIC DATA**

**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° = 1.22 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  | 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% |    |    |    |    |    |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|----|----|----|----|----|----|----|----|----|
|            | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50 | 30 | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| <b>RCR</b> |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |     |    |    |    |    |    |    |    |    |    |
| 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 |    |    |    |    |    |    |    |    |
| 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 |    |    |    |    |    |    |    |    |

**NOTES:**