

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P520638

Luminaire Tested: **8WSLA-100-L850-UPL8-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520638  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 8WSLA-100-L850-UPL8-UNV-U  
Description: 8 FOOT, 2000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI  
LEDS WITH 8% UPLIGHT  
Light Source: -  
Ballast/Driver: -

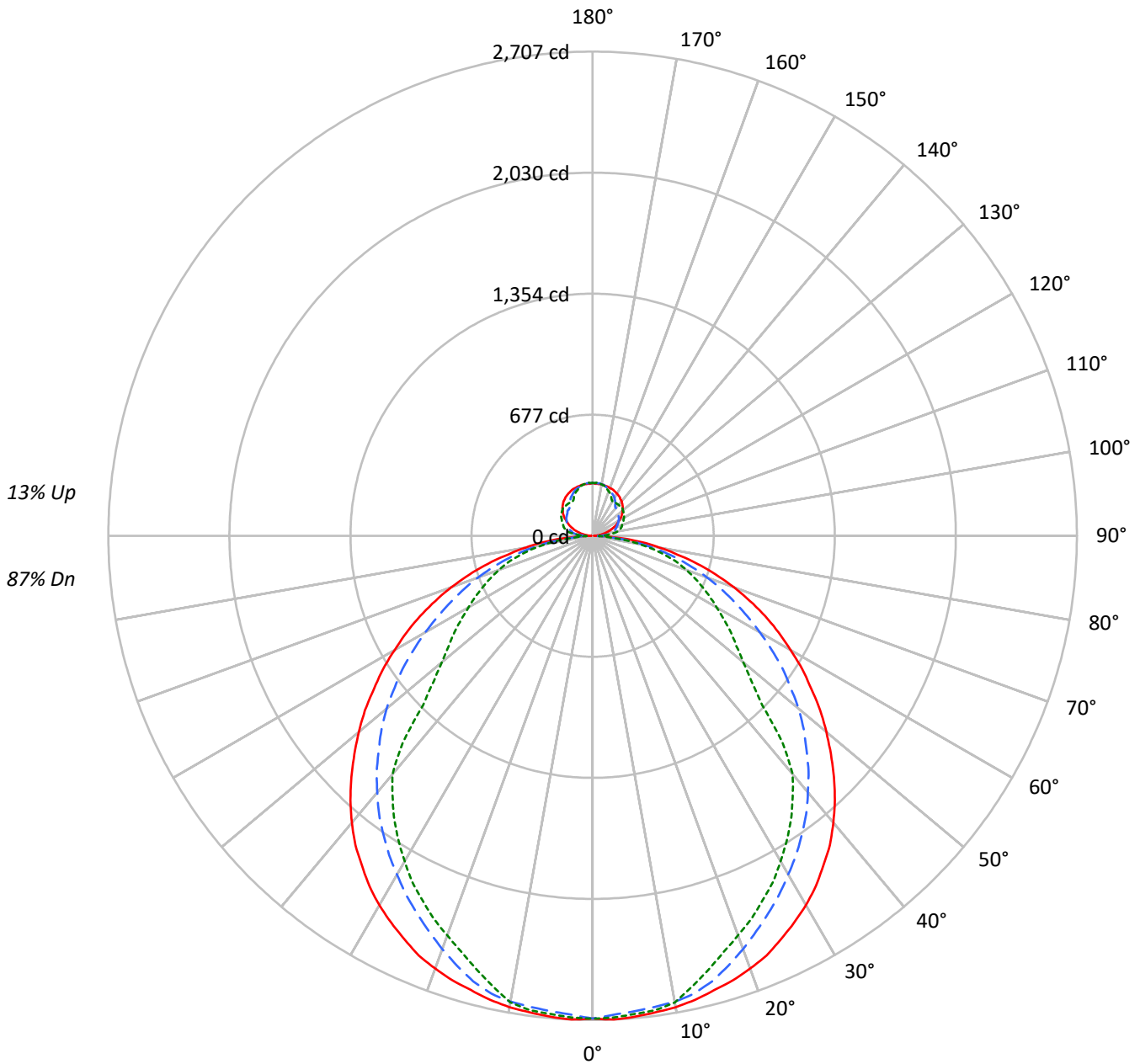
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8401.0 lumens  
Efficiency: N/A  
Efficacy: 132.5 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')  
CIE Type: Semi-Direct  
  
Input Watts (W): 63.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF  | 20  |     |     |     |     |     |     |     |     | 20  |     |    |    |    |    |    |    |    | 20 |    |   |  |  |  |  |  |  | 20 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |     | 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 | 0 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 0   | 116 | 116 | 116 | 116 | 112 | 112 | 112 | 112 | 104 | 104 | 104 | 97 | 97 | 97 | 90 | 90 | 90 | 87 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 106 | 101 | 97  | 93  | 102 | 98  | 94  | 90  | 91  | 88  | 85  | 85 | 83 | 80 | 79 | 78 | 76 | 73 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 96  | 88  | 82  | 76  | 92  | 85  | 79  | 74  | 80  | 75  | 70  | 74 | 70 | 67 | 70 | 66 | 64 | 61 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 88  | 78  | 70  | 63  | 84  | 75  | 68  | 62  | 70  | 64  | 59  | 66 | 61 | 56 | 62 | 58 | 54 | 51 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 80  | 69  | 60  | 54  | 77  | 67  | 59  | 53  | 62  | 56  | 50  | 59 | 53 | 48 | 55 | 50 | 46 | 44 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 74  | 61  | 53  | 46  | 71  | 60  | 51  | 45  | 56  | 49  | 44  | 53 | 47 | 42 | 50 | 45 | 40 | 38 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 68  | 55  | 47  | 40  | 66  | 54  | 46  | 40  | 51  | 44  | 38  | 48 | 42 | 37 | 45 | 40 | 36 | 33 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 63  | 50  | 42  | 36  | 61  | 49  | 41  | 35  | 46  | 39  | 34  | 43 | 37 | 33 | 41 | 36 | 32 | 30 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 59  | 46  | 37  | 32  | 57  | 44  | 37  | 31  | 42  | 35  | 30  | 40 | 34 | 29 | 38 | 32 | 28 | 26 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 55  | 42  | 34  | 28  | 53  | 41  | 33  | 28  | 39  | 32  | 27  | 37 | 31 | 26 | 35 | 30 | 26 | 24 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 52  | 39  | 31  | 26  | 50  | 38  | 30  | 25  | 36  | 29  | 25  | 34 | 28 | 24 | 32 | 27 | 23 | 22 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7264 | 7264 | 7264 |
| 5°  | 7292 | 7208 | 7250 |
| 10° | 7312 | 7228 | 7238 |
| 15° | 7326 | 7185 | 6990 |
| 20° | 7374 | 7041 | 6807 |
| 25° | 7392 | 6908 | 6677 |
| 30° | 7410 | 6795 | 6529 |
| 35° | 7388 | 6699 | 6354 |
| 40° | 7354 | 6576 | 6113 |
| 45° | 7258 | 6430 | 5100 |
| 50° | 7138 | 6293 | 4602 |
| 55° | 6997 | 6086 | 4428 |
| 60° | 6878 | 5811 | 4306 |
| 65° | 6776 | 5564 | 4303 |
| 70° | 6601 | 5348 | 4370 |
| 75° | 6300 | 5088 | 4402 |
| 80° | 5898 | 4575 | 4093 |
| 85° | 5397 | 3239 | 2757 |



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CATALOG NUMBER: 8WSLA-100-L850-UPL8-UNV-U

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 255.6  | 3.0       |
| 10°-20°   | 726.5  | 8.6       |
| 20°-30°   | 1085.6 | 12.9      |
| 30°-40°   | 1295.9 | 15.4      |
| 40°-50°   | 1296.0 | 15.4      |
| 50°-60°   | 1121.6 | 13.4      |
| 60°-70°   | 860.9  | 10.2      |
| 70°-80°   | 527.5  | 6.3       |
| 80°-90°   | 148.5  | 1.8       |
| 90°-100°  | 83.9   | 1.0       |
| 100°-110° | 133.2  | 1.6       |
| 110°-120° | 155.8  | 1.9       |
| 120°-130° | 168.2  | 2.0       |
| 130°-140° | 165.7  | 2.0       |
| 140°-150° | 146.6  | 1.7       |
| 150°-160° | 120.6  | 1.4       |
| 160°-170° | 80.7   | 1.0       |
| 170°-180° | 28.1   | 0.3       |
| 0°-30°    | 2067.7 | 24.6      |
| 0°-40°    | 3363.6 | 40.0      |
| 0°-60°    | 5781.2 | 68.8      |
| 0°-90°    | 7318.2 | 87.1      |
| 90°-120°  | 372.9  | 4.4       |
| 90°-150°  | 853.3  | 10.2      |
| 90°-180°  | 1083.0 | 12.9      |
| 0°-180°   | 8401.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2699 | 2699  | 2699 | 2699  | 2699 |      |
| 5°   | 2699 | 2692  | 2668 | 2688  | 2684 | 257  |
| 15°  | 2630 | 2626  | 2579 | 2532  | 2509 | 744  |
| 25°  | 2490 | 2459  | 2327 | 2264  | 2249 | 1149 |
| 35°  | 2249 | 2191  | 2039 | 1965  | 1934 | 1408 |
| 45°  | 1907 | 1853  | 1690 | 1538  | 1340 | 1471 |
| 55°  | 1492 | 1456  | 1297 | 1037  | 944  | 1337 |
| 65°  | 1064 | 1025  | 874  | 703   | 676  | 1051 |
| 75°  | 606  | 575   | 489  | 423   | 423  | 639  |
| 85°  | 175  | 144   | 105  | 89    | 89   | 183  |
| 90°  | 8    | 27    | 43   | 54    | 58   | 12   |
| 95°  | 31   | 66    | 89   | 93    | 93   | 31   |
| 105° | 89   | 93    | 132  | 155   | 163  | 94   |
| 115° | 148  | 124   | 155  | 179   | 190  | 144  |
| 125° | 198  | 159   | 179  | 206   | 214  | 176  |
| 135° | 237  | 214   | 198  | 218   | 229  | 183  |
| 145° | 264  | 252   | 221  | 218   | 225  | 165  |
| 155° | 280  | 276   | 260  | 249   | 245  | 129  |
| 165° | 287  | 291   | 284  | 284   | 284  | 82   |
| 175° | 291  | 295   | 295  | 299   | 299  | 28   |
| 180° | 295  | 295   | 295  | 295   | 295  |      |



TEST NUMBER: P520638

CATALOG NUMBER: 8WSLA-100-L850-UPL8-UNV-U

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 2699.4 | 2699.4 | 2699.4 | 2699.4 | 2699.4 |
| 2.5°   | 2707.2 | 2699.4 | 2680.0 | 2699.4 | 2695.6 |
| 5°     | 2699.4 | 2691.7 | 2668.4 | 2687.8 | 2683.9 |
| 7.5°   | 2687.8 | 2680.0 | 2656.7 | 2680.0 | 2676.1 |
| 10°    | 2676.1 | 2668.4 | 2645.1 | 2660.6 | 2648.9 |
| 12.5°  | 2656.7 | 2648.9 | 2621.8 | 2602.3 | 2579.0 |
| 15°    | 2629.5 | 2625.6 | 2579.0 | 2532.4 | 2509.1 |
| 17.5°  | 2606.2 | 2594.6 | 2520.8 | 2466.4 | 2439.2 |
| 20°    | 2575.1 | 2555.7 | 2458.6 | 2396.5 | 2377.1 |
| 22.5°  | 2540.2 | 2509.1 | 2392.6 | 2334.3 | 2318.8 |
| 25°    | 2489.7 | 2458.6 | 2326.6 | 2264.4 | 2248.9 |
| 27.5°  | 2439.2 | 2400.4 | 2260.5 | 2198.4 | 2182.9 |
| 30°    | 2384.8 | 2330.5 | 2186.7 | 2128.5 | 2101.3 |
| 32.5°  | 2322.7 | 2268.3 | 2116.8 | 2050.8 | 2019.7 |
| 35°    | 2248.9 | 2190.6 | 2039.1 | 1965.3 | 1934.3 |
| 37.5°  | 2179.0 | 2116.8 | 1961.5 | 1879.9 | 1837.2 |
| 40°    | 2093.5 | 2031.4 | 1872.1 | 1782.8 | 1740.1 |
| 42.5°  | 2004.2 | 1945.9 | 1786.7 | 1677.9 | 1573.1 |
| 45°    | 1907.1 | 1852.7 | 1689.6 | 1538.1 | 1340.0 |
| 47.5°  | 1806.1 | 1759.5 | 1600.2 | 1394.4 | 1204.1 |
| 50°    | 1705.1 | 1658.5 | 1503.1 | 1258.4 | 1099.2 |
| 52.5°  | 1604.1 | 1565.3 | 1394.4 | 1145.8 | 1013.7 |
| 55°    | 1491.5 | 1456.5 | 1297.3 | 1037.1 | 943.8  |
| 57.5°  | 1390.5 | 1355.5 | 1184.6 | 947.7  | 870.0  |
| 60°    | 1277.9 | 1246.8 | 1079.8 | 858.4  | 800.1  |
| 62.5°  | 1173.0 | 1138.0 | 974.9  | 780.7  | 738.0  |
| 65°    | 1064.2 | 1025.4 | 873.9  | 703.0  | 675.8  |
| 67.5°  | 951.6  | 912.8  | 776.8  | 633.1  | 617.6  |
| 70°    | 839.0  | 807.9  | 679.7  | 563.2  | 555.4  |
| 72.5°  | 722.4  | 687.5  | 582.6  | 497.2  | 497.2  |
| 75°    | 605.9  | 574.8  | 489.4  | 423.4  | 423.4  |
| 77.5°  | 485.5  | 470.0  | 392.3  | 345.7  | 349.6  |
| 80°    | 380.6  | 361.2  | 295.2  | 264.1  | 264.1  |
| 82.5°  | 279.7  | 256.3  | 198.1  | 174.8  | 182.6  |
| 85°    | 174.8  | 143.7  | 104.9  | 89.3   | 89.3   |
| 87.5°  | 54.4   | 42.7   | 31.1   | 35.0   | 35.0   |
| 90°    | 7.8    | 27.2   | 42.7   | 54.4   | 58.3   |
| 92.5°  | 19.4   | 50.5   | 62.1   | 73.8   | 77.7   |
| 95°    | 31.1   | 66.0   | 89.3   | 93.2   | 93.2   |
| 97.5°  | 42.7   | 73.8   | 108.8  | 124.3  | 124.3  |
| 100°   | 58.3   | 77.7   | 116.5  | 139.8  | 143.7  |
| 102.5° | 73.8   | 85.4   | 124.3  | 147.6  | 155.4  |
| 105°   | 89.3   | 93.2   | 132.1  | 155.4  | 163.1  |



TEST NUMBER: P520638

CATALOG NUMBER: 8WSLA-100-L850-UPL8-UNV-U

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 132.1 | 116.5 | 147.6 | 174.8 | 182.6 |
| 115°   | 147.6 | 124.3 | 155.4 | 178.7 | 190.3 |
| 117.5° | 159.2 | 135.9 | 163.1 | 186.4 | 194.2 |
| 120°   | 170.9 | 143.7 | 167.0 | 194.2 | 202.0 |
| 122.5° | 186.4 | 151.5 | 174.8 | 198.1 | 209.7 |
| 125°   | 198.1 | 159.2 | 178.7 | 205.9 | 213.6 |
| 127.5° | 209.7 | 174.8 | 182.6 | 209.7 | 217.5 |
| 130°   | 217.5 | 190.3 | 186.4 | 213.6 | 221.4 |
| 132.5° | 229.2 | 202.0 | 190.3 | 217.5 | 225.3 |
| 135°   | 236.9 | 213.6 | 198.1 | 217.5 | 229.2 |
| 137.5° | 244.7 | 225.3 | 198.1 | 217.5 | 225.3 |
| 140°   | 252.5 | 236.9 | 202.0 | 217.5 | 225.3 |
| 142.5° | 256.3 | 244.7 | 205.9 | 217.5 | 225.3 |
| 145°   | 264.1 | 252.5 | 221.4 | 217.5 | 225.3 |
| 147.5° | 268.0 | 260.2 | 233.0 | 217.5 | 225.3 |
| 150°   | 271.9 | 268.0 | 244.7 | 221.4 | 221.4 |
| 152.5° | 275.8 | 271.9 | 252.5 | 236.9 | 229.2 |
| 155°   | 279.7 | 275.8 | 260.2 | 248.6 | 244.7 |
| 157.5° | 283.5 | 283.5 | 268.0 | 260.2 | 256.3 |
| 160°   | 283.5 | 287.4 | 275.8 | 268.0 | 264.1 |
| 162.5° | 287.4 | 291.3 | 279.7 | 275.8 | 271.9 |
| 165°   | 287.4 | 291.3 | 283.5 | 283.5 | 283.5 |
| 167.5° | 291.3 | 295.2 | 291.3 | 287.4 | 287.4 |
| 170°   | 291.3 | 295.2 | 291.3 | 291.3 | 291.3 |
| 172.5° | 291.3 | 295.2 | 295.2 | 295.2 | 295.2 |
| 175°   | 291.3 | 295.2 | 295.2 | 299.1 | 299.1 |
| 177.5° | 291.3 | 295.2 | 295.2 | 295.2 | 295.2 |
| 180°   | 295.2 | 295.2 | 295.2 | 295.2 | 295.2 |



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°    - - 45°-225°    - - - - 90°-270°







|        |       |       |       |       |       |
|--------|-------|-------|-------|-------|-------|
| 107.5° | 104.9 | 101.0 | 135.9 | 163.1 | 170.9 |
| 110°   | 116.5 | 108.8 | 143.7 | 167.0 | 174.8 |



(END OF REPORT)