

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: P520767

Luminaire Tested: **8WSLA-50-L940-UPL8-UNV-U**

Issue Date: 5/3/2021



**Test Information**

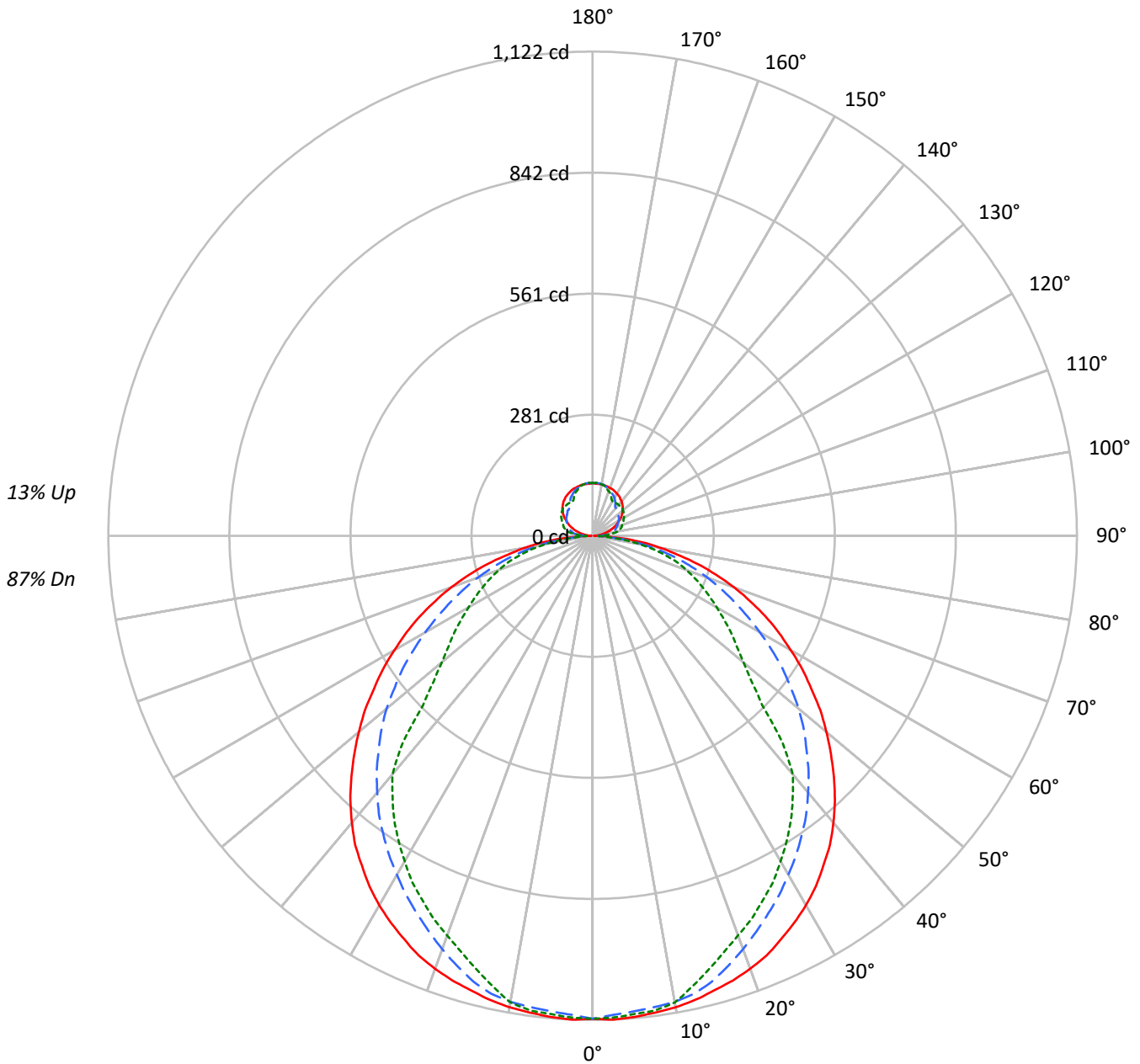
Test Method: LM-79-08  
Report Number: P520767  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 8WSLA-50-L940-UPL8-UNV-U  
Description: 8 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI  
LEDS WITH 8% UPLIGHT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3483.0 lumens  
Efficiency: N/A  
Efficacy: 114.2 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): 30.5  
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°  | 3012 | 3012 | 3012 |
| 5°  | 3023 | 2988 | 3006 |
| 10° | 3032 | 2996 | 3001 |
| 15° | 3037 | 2979 | 2898 |
| 20° | 3057 | 2919 | 2822 |
| 25° | 3065 | 2864 | 2768 |
| 30° | 3072 | 2817 | 2707 |
| 35° | 3063 | 2777 | 2634 |
| 40° | 3049 | 2727 | 2534 |
| 45° | 3009 | 2666 | 2114 |
| 50° | 2959 | 2609 | 1908 |
| 55° | 2901 | 2523 | 1836 |
| 60° | 2851 | 2410 | 1785 |
| 65° | 2809 | 2307 | 1784 |
| 70° | 2736 | 2217 | 1812 |
| 75° | 2612 | 2110 | 1825 |
| 80° | 2445 | 1897 | 1697 |
| 85° | 2238 | 1343 | 1142 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 105.9  | 3.0       |
| 10°-20°   | 301.2  | 8.6       |
| 20°-30°   | 450.1  | 12.9      |
| 30°-40°   | 537.3  | 15.4      |
| 40°-50°   | 537.3  | 15.4      |
| 50°-60°   | 465.0  | 13.4      |
| 60°-70°   | 356.9  | 10.2      |
| 70°-80°   | 218.7  | 6.3       |
| 80°-90°   | 61.6   | 1.8       |
| 90°-100°  | 34.8   | 1.0       |
| 100°-110° | 55.2   | 1.6       |
| 110°-120° | 64.6   | 1.9       |
| 120°-130° | 69.7   | 2.0       |
| 130°-140° | 68.7   | 2.0       |
| 140°-150° | 60.8   | 1.7       |
| 150°-160° | 50.0   | 1.4       |
| 160°-170° | 33.5   | 1.0       |
| 170°-180° | 11.7   | 0.3       |
| 0°-30°    | 857.3  | 24.6      |
| 0°-40°    | 1394.5 | 40.0      |
| 0°-60°    | 2396.9 | 68.8      |
| 0°-90°    | 3034.1 | 87.1      |
| 90°-120°  | 154.6  | 4.4       |
| 90°-150°  | 353.8  | 10.2      |
| 90°-180°  | 449.0  | 12.9      |
| 0°-180°   | 3483.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1119 | 1119  | 1119 | 1119  | 1119 |      |
| 5°   | 1119 | 1116  | 1106 | 1114  | 1113 | 106  |
| 15°  | 1090 | 1089  | 1069 | 1050  | 1040 | 308  |
| 25°  | 1032 | 1019  | 965  | 939   | 932  | 476  |
| 35°  | 932  | 908   | 845  | 815   | 802  | 584  |
| 45°  | 791  | 768   | 700  | 638   | 556  | 610  |
| 55°  | 618  | 604   | 538  | 430   | 391  | 554  |
| 65°  | 441  | 425   | 362  | 292   | 280  | 436  |
| 75°  | 251  | 238   | 203  | 176   | 176  | 265  |
| 85°  | 72   | 60    | 44   | 37    | 37   | 76   |
| 90°  | 3    | 11    | 18   | 22    | 24   | 5    |
| 95°  | 13   | 27    | 37   | 39    | 39   | 13   |
| 105° | 37   | 39    | 55   | 64    | 68   | 39   |
| 115° | 61   | 52    | 64   | 74    | 79   | 60   |
| 125° | 82   | 66    | 74   | 85    | 89   | 73   |
| 135° | 98   | 89    | 82   | 90    | 95   | 76   |
| 145° | 110  | 105   | 92   | 90    | 93   | 68   |
| 155° | 116  | 114   | 108  | 103   | 101  | 53   |
| 165° | 119  | 121   | 118  | 118   | 118  | 34   |
| 175° | 121  | 122   | 122  | 124   | 124  | 12   |
| 180° | 122  | 122   | 122  | 122   | 122  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1119.2 | 1119.2 | 1119.2 | 1119.2 | 1119.2 |
| 2.5°   | 1122.4 | 1119.2 | 1111.1 | 1119.2 | 1117.6 |
| 5°     | 1119.2 | 1115.9 | 1106.3 | 1114.3 | 1112.7 |
| 7.5°   | 1114.3 | 1111.1 | 1101.5 | 1111.1 | 1109.5 |
| 10°    | 1109.5 | 1106.3 | 1096.6 | 1103.1 | 1098.2 |
| 12.5°  | 1101.5 | 1098.2 | 1087.0 | 1078.9 | 1069.3 |
| 15°    | 1090.2 | 1088.6 | 1069.3 | 1049.9 | 1040.3 |
| 17.5°  | 1080.5 | 1075.7 | 1045.1 | 1022.6 | 1011.3 |
| 20°    | 1067.6 | 1059.6 | 1019.3 | 993.6  | 985.5  |
| 22.5°  | 1053.1 | 1040.3 | 992.0  | 967.8  | 961.4  |
| 25°    | 1032.2 | 1019.3 | 964.6  | 938.8  | 932.4  |
| 27.5°  | 1011.3 | 995.2  | 937.2  | 911.4  | 905.0  |
| 30°    | 988.7  | 966.2  | 906.6  | 882.5  | 871.2  |
| 32.5°  | 963.0  | 940.4  | 877.6  | 850.2  | 837.4  |
| 35°    | 932.4  | 908.2  | 845.4  | 814.8  | 801.9  |
| 37.5°  | 903.4  | 877.6  | 813.2  | 779.4  | 761.7  |
| 40°    | 868.0  | 842.2  | 776.2  | 739.1  | 721.4  |
| 42.5°  | 830.9  | 806.8  | 740.7  | 695.7  | 652.2  |
| 45°    | 790.7  | 768.1  | 700.5  | 637.7  | 555.6  |
| 47.5°  | 748.8  | 729.5  | 663.5  | 578.1  | 499.2  |
| 50°    | 706.9  | 687.6  | 623.2  | 521.7  | 455.7  |
| 52.5°  | 665.1  | 649.0  | 578.1  | 475.0  | 420.3  |
| 55°    | 618.4  | 603.9  | 537.8  | 430.0  | 391.3  |
| 57.5°  | 576.5  | 562.0  | 491.1  | 392.9  | 360.7  |
| 60°    | 529.8  | 516.9  | 447.7  | 355.9  | 331.7  |
| 62.5°  | 486.3  | 471.8  | 404.2  | 323.7  | 306.0  |
| 65°    | 441.2  | 425.1  | 362.3  | 291.5  | 280.2  |
| 67.5°  | 394.5  | 378.4  | 322.1  | 262.5  | 256.0  |
| 70°    | 347.8  | 334.9  | 281.8  | 233.5  | 230.3  |
| 72.5°  | 299.5  | 285.0  | 241.5  | 206.1  | 206.1  |
| 75°    | 251.2  | 238.3  | 202.9  | 175.5  | 175.5  |
| 77.5°  | 201.3  | 194.8  | 162.6  | 143.3  | 144.9  |
| 80°    | 157.8  | 149.8  | 122.4  | 109.5  | 109.5  |
| 82.5°  | 115.9  | 106.3  | 82.1   | 72.5   | 75.7   |
| 85°    | 72.5   | 59.6   | 43.5   | 37.0   | 37.0   |
| 87.5°  | 22.5   | 17.7   | 12.9   | 14.5   | 14.5   |
| 90°    | 3.2    | 11.3   | 17.7   | 22.5   | 24.2   |
| 92.5°  | 8.1    | 20.9   | 25.8   | 30.6   | 32.2   |
| 95°    | 12.9   | 27.4   | 37.0   | 38.6   | 38.6   |
| 97.5°  | 17.7   | 30.6   | 45.1   | 51.5   | 51.5   |
| 100°   | 24.2   | 32.2   | 48.3   | 58.0   | 59.6   |
| 102.5° | 30.6   | 35.4   | 51.5   | 61.2   | 64.4   |
| 105°   | 37.0   | 38.6   | 54.8   | 64.4   | 67.6   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 54.8  | 48.3  | 61.2  | 72.5  | 75.7  |
| 115°   | 61.2  | 51.5  | 64.4  | 74.1  | 78.9  |
| 117.5° | 66.0  | 56.4  | 67.6  | 77.3  | 80.5  |
| 120°   | 70.9  | 59.6  | 69.2  | 80.5  | 83.7  |
| 122.5° | 77.3  | 62.8  | 72.5  | 82.1  | 87.0  |
| 125°   | 82.1  | 66.0  | 74.1  | 85.3  | 88.6  |
| 127.5° | 87.0  | 72.5  | 75.7  | 87.0  | 90.2  |
| 130°   | 90.2  | 78.9  | 77.3  | 88.6  | 91.8  |
| 132.5° | 95.0  | 83.7  | 78.9  | 90.2  | 93.4  |
| 135°   | 98.2  | 88.6  | 82.1  | 90.2  | 95.0  |
| 137.5° | 101.4 | 93.4  | 82.1  | 90.2  | 93.4  |
| 140°   | 104.7 | 98.2  | 83.7  | 90.2  | 93.4  |
| 142.5° | 106.3 | 101.4 | 85.3  | 90.2  | 93.4  |
| 145°   | 109.5 | 104.7 | 91.8  | 90.2  | 93.4  |
| 147.5° | 111.1 | 107.9 | 96.6  | 90.2  | 93.4  |
| 150°   | 112.7 | 111.1 | 101.4 | 91.8  | 91.8  |
| 152.5° | 114.3 | 112.7 | 104.7 | 98.2  | 95.0  |
| 155°   | 115.9 | 114.3 | 107.9 | 103.1 | 101.4 |
| 157.5° | 117.6 | 117.6 | 111.1 | 107.9 | 106.3 |
| 160°   | 117.6 | 119.2 | 114.3 | 111.1 | 109.5 |
| 162.5° | 119.2 | 120.8 | 115.9 | 114.3 | 112.7 |
| 165°   | 119.2 | 120.8 | 117.6 | 117.6 | 117.6 |
| 167.5° | 120.8 | 122.4 | 120.8 | 119.2 | 119.2 |
| 170°   | 120.8 | 122.4 | 120.8 | 120.8 | 120.8 |
| 172.5° | 120.8 | 122.4 | 122.4 | 122.4 | 122.4 |
| 175°   | 120.8 | 122.4 | 122.4 | 124.0 | 124.0 |
| 177.5° | 120.8 | 122.4 | 122.4 | 122.4 | 122.4 |
| 180°   | 122.4 | 122.4 | 122.4 | 122.4 | 122.4 |



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







|        |      |      |      |      |      |
|--------|------|------|------|------|------|
| 107.5° | 43.5 | 41.9 | 56.4 | 67.6 | 70.9 |
| 110°   | 48.3 | 45.1 | 59.6 | 69.2 | 72.5 |



(END OF REPORT)