

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: P520524

Luminaire Tested: **4WSLA-150-L935-UPL8-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520524  
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: 4WSLA-150-L935-UPL8-UNV-U  
Description: 4 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 90 CRI  
LEDS WITH 8% UPLIGHT  
Light Source: -  
Ballast/Driver: -

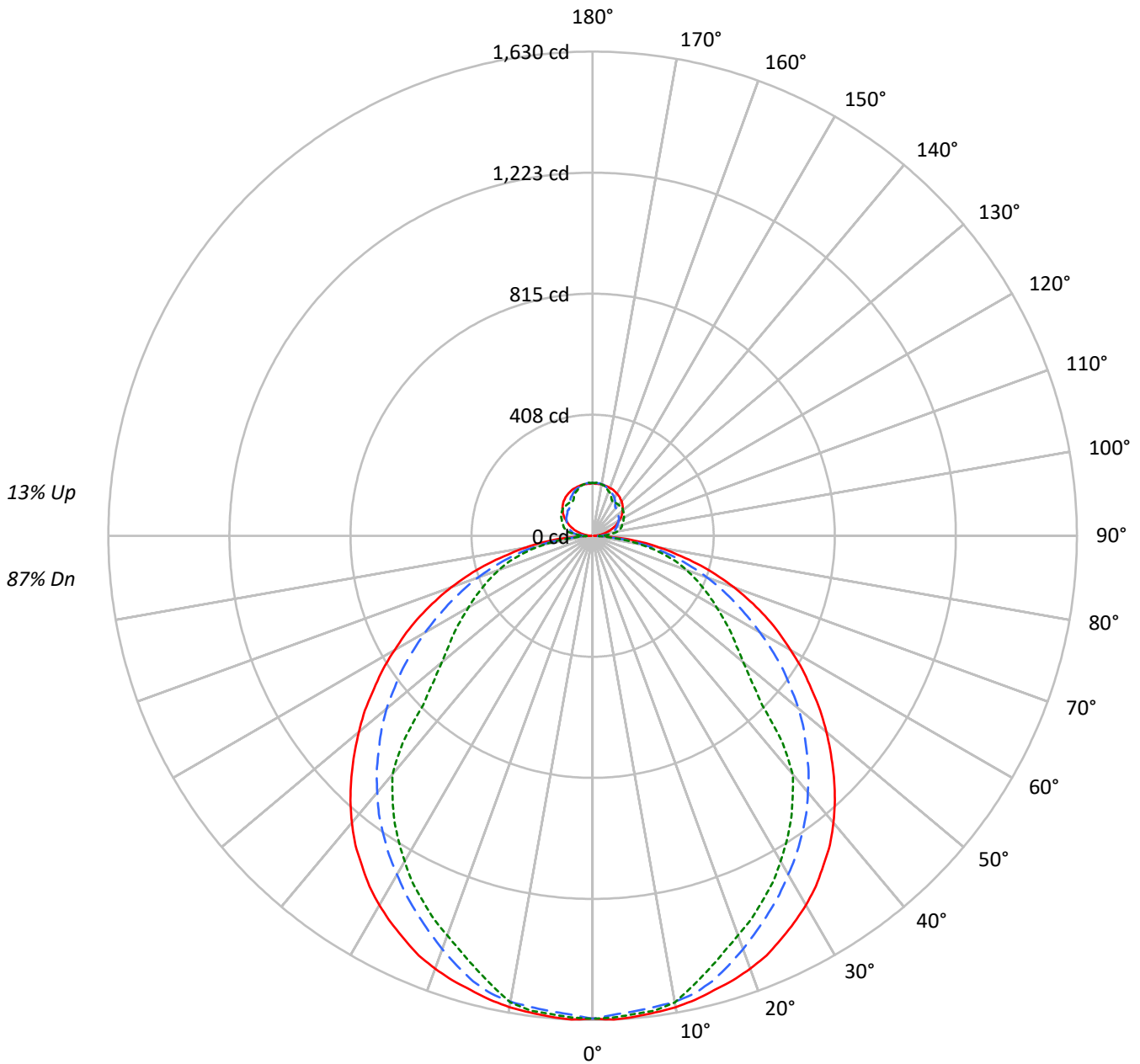
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5059.0 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')  
CIE Type: Semi-Direct  
  
Input Watts (W): 47.7  
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°  | 8749 | 8749 | 8749 |
| 5°  | 8782 | 8681 | 8732 |
| 10° | 8807 | 8705 | 8718 |
| 15° | 8823 | 8654 | 8419 |
| 20° | 8881 | 8480 | 8198 |
| 25° | 8903 | 8320 | 8042 |
| 30° | 8925 | 8183 | 7864 |
| 35° | 8898 | 8068 | 7653 |
| 40° | 8857 | 7921 | 7362 |
| 45° | 8741 | 7744 | 6142 |
| 50° | 8597 | 7579 | 5542 |
| 55° | 8428 | 7330 | 5333 |
| 60° | 8283 | 6999 | 5186 |
| 65° | 8162 | 6702 | 5183 |
| 70° | 7950 | 6441 | 5264 |
| 75° | 7588 | 6128 | 5300 |
| 80° | 7104 | 5511 | 4928 |
| 85° | 6502 | 3903 | 3322 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 153.9  | 3.0       |
| 10°-20°   | 437.5  | 8.6       |
| 20°-30°   | 653.7  | 12.9      |
| 30°-40°   | 780.4  | 15.4      |
| 40°-50°   | 780.4  | 15.4      |
| 50°-60°   | 675.4  | 13.4      |
| 60°-70°   | 518.4  | 10.2      |
| 70°-80°   | 317.7  | 6.3       |
| 80°-90°   | 89.4   | 1.8       |
| 90°-100°  | 50.5   | 1.0       |
| 100°-110° | 80.2   | 1.6       |
| 110°-120° | 93.8   | 1.9       |
| 120°-130° | 101.3  | 2.0       |
| 130°-140° | 99.8   | 2.0       |
| 140°-150° | 88.3   | 1.7       |
| 150°-160° | 72.6   | 1.4       |
| 160°-170° | 48.6   | 1.0       |
| 170°-180° | 16.9   | 0.3       |
| 0°-30°    | 1245.1 | 24.6      |
| 0°-40°    | 2025.5 | 40.0      |
| 0°-60°    | 3481.4 | 68.8      |
| 0°-90°    | 4406.9 | 87.1      |
| 90°-120°  | 224.6  | 4.4       |
| 90°-150°  | 513.9  | 10.2      |
| 90°-180°  | 652.0  | 12.9      |
| 0°-180°   | 5059.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1626 | 1626  | 1626 | 1626  | 1626 |      |
| 5°   | 1626 | 1621  | 1607 | 1619  | 1616 | 155  |
| 15°  | 1584 | 1581  | 1553 | 1525  | 1511 | 448  |
| 25°  | 1499 | 1481  | 1401 | 1364  | 1354 | 692  |
| 35°  | 1354 | 1319  | 1228 | 1184  | 1165 | 848  |
| 45°  | 1148 | 1116  | 1017 | 926   | 807  | 886  |
| 55°  | 898  | 877   | 781  | 624   | 568  | 805  |
| 65°  | 641  | 618   | 526  | 423   | 407  | 633  |
| 75°  | 365  | 346   | 295  | 255   | 255  | 385  |
| 85°  | 105  | 86    | 63   | 54    | 54   | 110  |
| 90°  | 5    | 16    | 26   | 33    | 35   | 7    |
| 95°  | 19   | 40    | 54   | 56    | 56   | 18   |
| 105° | 54   | 56    | 80   | 94    | 98   | 56   |
| 115° | 89   | 75    | 94   | 108   | 115  | 87   |
| 125° | 119  | 96    | 108  | 124   | 129  | 106  |
| 135° | 143  | 129   | 119  | 131   | 138  | 110  |
| 145° | 159  | 152   | 133  | 131   | 136  | 99   |
| 155° | 168  | 166   | 157  | 150   | 147  | 78   |
| 165° | 173  | 175   | 171  | 171   | 171  | 49   |
| 175° | 175  | 178   | 178  | 180   | 180  | 17   |
| 180° | 178  | 178   | 178  | 178   | 178  |      |



TEST NUMBER: P520524

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1625.6 | 1625.6 | 1625.6 | 1625.6 | 1625.6 |
| 2.5°   | 1630.3 | 1625.6 | 1613.9 | 1625.6 | 1623.2 |
| 5°     | 1625.6 | 1620.9 | 1606.9 | 1618.6 | 1616.2 |
| 7.5°   | 1618.6 | 1613.9 | 1599.8 | 1613.9 | 1611.5 |
| 10°    | 1611.5 | 1606.9 | 1592.8 | 1602.2 | 1595.2 |
| 12.5°  | 1599.8 | 1595.2 | 1578.8 | 1567.1 | 1553.1 |
| 15°    | 1583.5 | 1581.1 | 1553.1 | 1525.0 | 1511.0 |
| 17.5°  | 1569.4 | 1562.4 | 1518.0 | 1485.2 | 1468.9 |
| 20°    | 1550.7 | 1539.0 | 1480.6 | 1443.1 | 1431.4 |
| 22.5°  | 1529.7 | 1511.0 | 1440.8 | 1405.7 | 1396.4 |
| 25°    | 1499.3 | 1480.6 | 1401.0 | 1363.6 | 1354.3 |
| 27.5°  | 1468.9 | 1445.5 | 1361.3 | 1323.9 | 1314.5 |
| 30°    | 1436.1 | 1403.4 | 1316.8 | 1281.7 | 1265.4 |
| 32.5°  | 1398.7 | 1366.0 | 1274.7 | 1235.0 | 1216.3 |
| 35°    | 1354.3 | 1319.2 | 1228.0 | 1183.5 | 1164.8 |
| 37.5°  | 1312.2 | 1274.7 | 1181.2 | 1132.1 | 1106.3 |
| 40°    | 1260.7 | 1223.3 | 1127.4 | 1073.6 | 1047.9 |
| 42.5°  | 1206.9 | 1171.8 | 1075.9 | 1010.4 | 947.3  |
| 45°    | 1148.4 | 1115.7 | 1017.4 | 926.2  | 806.9  |
| 47.5°  | 1087.6 | 1059.5 | 963.7  | 839.7  | 725.1  |
| 50°    | 1026.8 | 998.7  | 905.2  | 757.8  | 661.9  |
| 52.5°  | 966.0  | 942.6  | 839.7  | 690.0  | 610.5  |
| 55°    | 898.2  | 877.1  | 781.2  | 624.5  | 568.4  |
| 57.5°  | 837.3  | 816.3  | 713.4  | 570.7  | 523.9  |
| 60°    | 769.5  | 750.8  | 650.2  | 516.9  | 481.8  |
| 62.5°  | 706.4  | 685.3  | 587.1  | 470.1  | 444.4  |
| 65°    | 640.9  | 617.5  | 526.3  | 423.4  | 407.0  |
| 67.5°  | 573.0  | 549.7  | 467.8  | 381.3  | 371.9  |
| 70°    | 505.2  | 486.5  | 409.3  | 339.1  | 334.5  |
| 72.5°  | 435.0  | 414.0  | 350.8  | 299.4  | 299.4  |
| 75°    | 364.9  | 346.2  | 294.7  | 254.9  | 254.9  |
| 77.5°  | 292.4  | 283.0  | 236.2  | 208.2  | 210.5  |
| 80°    | 229.2  | 217.5  | 177.8  | 159.0  | 159.0  |
| 82.5°  | 168.4  | 154.4  | 119.3  | 105.3  | 109.9  |
| 85°    | 105.3  | 86.5   | 63.2   | 53.8   | 53.8   |
| 87.5°  | 32.7   | 25.7   | 18.7   | 21.1   | 21.1   |
| 90°    | 4.7    | 16.4   | 25.7   | 32.7   | 35.1   |
| 92.5°  | 11.7   | 30.4   | 37.4   | 44.4   | 46.8   |
| 95°    | 18.7   | 39.8   | 53.8   | 56.1   | 56.1   |
| 97.5°  | 25.7   | 44.4   | 65.5   | 74.8   | 74.8   |
| 100°   | 35.1   | 46.8   | 70.2   | 84.2   | 86.5   |
| 102.5° | 44.4   | 51.5   | 74.8   | 88.9   | 93.6   |
| 105°   | 53.8   | 56.1   | 79.5   | 93.6   | 98.2   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 79.5  | 70.2  | 88.9  | 105.3 | 109.9 |
| 115°   | 88.9  | 74.8  | 93.6  | 107.6 | 114.6 |
| 117.5° | 95.9  | 81.9  | 98.2  | 112.3 | 116.9 |
| 120°   | 102.9 | 86.5  | 100.6 | 116.9 | 121.6 |
| 122.5° | 112.3 | 91.2  | 105.3 | 119.3 | 126.3 |
| 125°   | 119.3 | 95.9  | 107.6 | 124.0 | 128.6 |
| 127.5° | 126.3 | 105.3 | 109.9 | 126.3 | 131.0 |
| 130°   | 131.0 | 114.6 | 112.3 | 128.6 | 133.3 |
| 132.5° | 138.0 | 121.6 | 114.6 | 131.0 | 135.7 |
| 135°   | 142.7 | 128.6 | 119.3 | 131.0 | 138.0 |
| 137.5° | 147.4 | 135.7 | 119.3 | 131.0 | 135.7 |
| 140°   | 152.0 | 142.7 | 121.6 | 131.0 | 135.7 |
| 142.5° | 154.4 | 147.4 | 124.0 | 131.0 | 135.7 |
| 145°   | 159.0 | 152.0 | 133.3 | 131.0 | 135.7 |
| 147.5° | 161.4 | 156.7 | 140.3 | 131.0 | 135.7 |
| 150°   | 163.7 | 161.4 | 147.4 | 133.3 | 133.3 |
| 152.5° | 166.1 | 163.7 | 152.0 | 142.7 | 138.0 |
| 155°   | 168.4 | 166.1 | 156.7 | 149.7 | 147.4 |
| 157.5° | 170.7 | 170.7 | 161.4 | 156.7 | 154.4 |
| 160°   | 170.7 | 173.1 | 166.1 | 161.4 | 159.0 |
| 162.5° | 173.1 | 175.4 | 168.4 | 166.1 | 163.7 |
| 165°   | 173.1 | 175.4 | 170.7 | 170.7 | 170.7 |
| 167.5° | 175.4 | 177.8 | 175.4 | 173.1 | 173.1 |
| 170°   | 175.4 | 177.8 | 175.4 | 175.4 | 175.4 |
| 172.5° | 175.4 | 177.8 | 177.8 | 177.8 | 177.8 |
| 175°   | 175.4 | 177.8 | 177.8 | 180.1 | 180.1 |
| 177.5° | 175.4 | 177.8 | 177.8 | 177.8 | 177.8 |
| 180°   | 177.8 | 177.8 | 177.8 | 177.8 | 177.8 |



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







|        |      |      |      |       |       |
|--------|------|------|------|-------|-------|
| 107.5° | 63.2 | 60.8 | 81.9 | 98.2  | 102.9 |
| 110°   | 70.2 | 65.5 | 86.5 | 100.6 | 105.3 |



(END OF REPORT)