

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: P520547

Luminaire Tested: **4WSLA-175-L935-UPL15-UNV-U**

Issue Date: 5/3/2021

**Test Information**

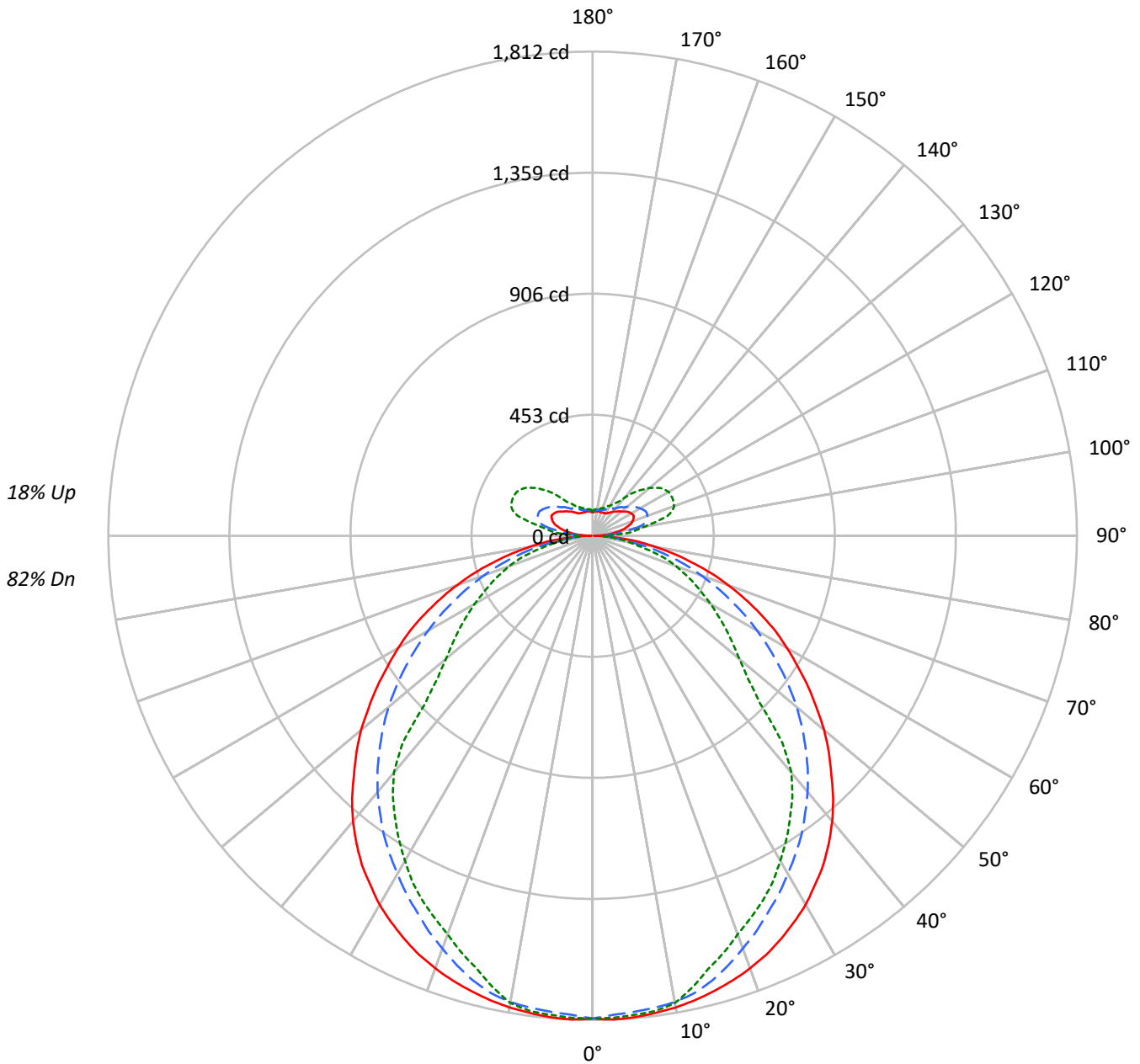
Test Method: LM-79-08  
Report Number: P520547  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 4WSLA-175-L935-UPL15-UNV-U  
Description: 4 FOOT, 1750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 90 CRI  
LEDS WITH 15% UPLIGHT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5852.0 lumens  
Efficiency: N/A  
Efficacy: 98.4 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')  
CIE Type: Semi-Direct  
  
Input Watts (W): 59.5  
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   | 115 | 115 | 115 | 115 | 110 | 110 | 110 | 110 | 101 | 101 | 101 | 93 | 93 | 93 | 86 | 86 | 86 | 82 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 105 | 100 | 96  | 92  | 100 | 96  | 93  | 89  | 89  | 86  | 83  | 82 | 80 | 78 | 76 | 74 | 72 | 69 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 96  | 88  | 81  | 76  | 91  | 84  | 78  | 73  | 78  | 73  | 69  | 72 | 68 | 65 | 67 | 64 | 61 | 58 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 87  | 77  | 69  | 63  | 83  | 74  | 67  | 61  | 69  | 63  | 58  | 64 | 59 | 55 | 59 | 55 | 52 | 49 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 80  | 68  | 60  | 53  | 76  | 66  | 58  | 52  | 61  | 55  | 50  | 57 | 51 | 47 | 53 | 48 | 45 | 42 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 73  | 61  | 52  | 46  | 70  | 59  | 51  | 45  | 55  | 48  | 43  | 51 | 45 | 41 | 48 | 43 | 39 | 36 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 68  | 55  | 46  | 40  | 65  | 53  | 45  | 39  | 50  | 43  | 38  | 46 | 40 | 36 | 43 | 38 | 34 | 32 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 63  | 50  | 41  | 35  | 60  | 48  | 40  | 35  | 45  | 38  | 33  | 42 | 36 | 32 | 39 | 34 | 30 | 28 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 58  | 45  | 37  | 32  | 56  | 44  | 36  | 31  | 41  | 35  | 30  | 39 | 33 | 29 | 36 | 31 | 27 | 25 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 55  | 42  | 34  | 28  | 52  | 40  | 33  | 28  | 38  | 31  | 27  | 36 | 30 | 26 | 33 | 28 | 25 | 23 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 51  | 38  | 31  | 26  | 49  | 37  | 30  | 25  | 35  | 29  | 24  | 33 | 27 | 23 | 31 | 26 | 23 | 21 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 9725 | 9725 | 9725 |
| 5°  | 9772 | 9663 | 9722 |
| 10° | 9795 | 9684 | 9705 |
| 15° | 9823 | 9609 | 9343 |
| 20° | 9866 | 9415 | 9089 |
| 25° | 9892 | 9228 | 8946 |
| 30° | 9908 | 9077 | 8724 |
| 35° | 9885 | 8958 | 8464 |
| 40° | 9798 | 8794 | 8124 |
| 45° | 9611 | 8578 | 6737 |
| 50° | 9467 | 8347 | 5999 |
| 55° | 9234 | 8013 | 5709 |
| 60° | 9034 | 7653 | 5484 |
| 65° | 8821 | 7235 | 5321 |
| 70° | 8478 | 6777 | 5220 |
| 75° | 8002 | 6211 | 4801 |
| 80° | 7327 | 5225 | 4259 |
| 85° | 6564 | 4526 | 4298 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 171.3  | 2.9       |
| 10°-20°   | 486.5  | 8.3       |
| 20°-30°   | 726.0  | 12.4      |
| 30°-40°   | 865.0  | 14.8      |
| 40°-50°   | 860.4  | 14.7      |
| 50°-60°   | 737.4  | 12.6      |
| 60°-70°   | 555.4  | 9.5       |
| 70°-80°   | 321.6  | 5.5       |
| 80°-90°   | 96.7   | 1.7       |
| 90°-100°  | 103.8  | 1.8       |
| 100°-110° | 213.1  | 3.6       |
| 110°-120° | 225.3  | 3.9       |
| 120°-130° | 188.0  | 3.2       |
| 130°-140° | 131.3  | 2.2       |
| 140°-150° | 81.7   | 1.4       |
| 150°-160° | 50.7   | 0.9       |
| 160°-170° | 28.5   | 0.5       |
| 170°-180° | 9.2    | 0.2       |
| 0°-30°    | 1383.7 | 23.6      |
| 0°-40°    | 2248.7 | 38.4      |
| 0°-60°    | 3846.6 | 65.7      |
| 0°-90°    | 4820.3 | 82.4      |
| 90°-120°  | 542.3  | 9.3       |
| 90°-150°  | 943.3  | 16.1      |
| 90°-180°  | 1032.0 | 17.6      |
| 0°-180°   | 5852.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1807 | 1807  | 1807 | 1807  | 1807 |      |
| 5°   | 1809 | 1803  | 1789 | 1801  | 1800 | 172  |
| 15°  | 1763 | 1761  | 1724 | 1695  | 1677 | 498  |
| 25°  | 1666 | 1642  | 1554 | 1516  | 1506 | 768  |
| 35°  | 1505 | 1464  | 1363 | 1310  | 1288 | 940  |
| 45°  | 1263 | 1232  | 1127 | 1015  | 885  | 976  |
| 55°  | 984  | 969   | 854  | 678   | 608  | 880  |
| 65°  | 693  | 676   | 568  | 442   | 418  | 685  |
| 75°  | 385  | 372   | 299  | 238   | 231  | 408  |
| 85°  | 106  | 94    | 73   | 70    | 70   | 113  |
| 90°  | 6    | 26    | 44   | 55    | 59   | 11   |
| 95°  | 59   | 79    | 90   | 132   | 143  | 56   |
| 105° | 137  | 143   | 205  | 275   | 291  | 143  |
| 115° | 170  | 145   | 218  | 300   | 330  | 166  |
| 125° | 158  | 139   | 189  | 277   | 312  | 140  |
| 135° | 128  | 139   | 152  | 205   | 236  | 100  |
| 145° | 104  | 121   | 132  | 141   | 150  | 66   |
| 155° | 95   | 101   | 108  | 117   | 119  | 44   |
| 165° | 94   | 97    | 101  | 104   | 104  | 27   |
| 175° | 92   | 94    | 95   | 97    | 99   | 9    |
| 180° | 90   | 90    | 90   | 90    | 90   |      |



TEST NUMBER: P520547

CATALOG NUMBER: 4WSLA-175-L935-UPL15-UNV-U

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1806.9 | 1806.9 | 1806.9 | 1806.9 | 1806.9 |
| 2.5°   | 1812.4 | 1808.8 | 1794.1 | 1808.8 | 1805.1 |
| 5°     | 1808.8 | 1803.3 | 1788.6 | 1801.4 | 1799.6 |
| 7.5°   | 1801.4 | 1797.8 | 1781.3 | 1795.9 | 1794.1 |
| 10°    | 1792.3 | 1786.8 | 1772.1 | 1783.1 | 1775.8 |
| 12.5°  | 1779.4 | 1775.8 | 1753.8 | 1744.6 | 1730.0 |
| 15°    | 1763.0 | 1761.1 | 1724.5 | 1695.1 | 1676.8 |
| 17.5°  | 1744.6 | 1737.3 | 1686.0 | 1651.2 | 1634.7 |
| 20°    | 1722.6 | 1711.6 | 1643.8 | 1603.5 | 1587.0 |
| 22.5°  | 1697.0 | 1680.5 | 1601.7 | 1563.2 | 1546.7 |
| 25°    | 1665.8 | 1642.0 | 1554.0 | 1515.6 | 1506.4 |
| 27.5°  | 1631.0 | 1603.5 | 1510.1 | 1471.6 | 1460.6 |
| 30°    | 1594.4 | 1559.5 | 1460.6 | 1423.9 | 1403.8 |
| 32.5°  | 1548.5 | 1515.6 | 1412.9 | 1370.8 | 1348.8 |
| 35°    | 1504.6 | 1464.2 | 1363.4 | 1310.3 | 1288.3 |
| 37.5°  | 1451.4 | 1411.1 | 1306.6 | 1253.5 | 1227.8 |
| 40°    | 1394.6 | 1354.3 | 1251.7 | 1189.4 | 1156.4 |
| 42.5°  | 1332.3 | 1295.6 | 1191.2 | 1116.0 | 1051.9 |
| 45°    | 1262.7 | 1231.5 | 1127.0 | 1015.3 | 885.1  |
| 47.5°  | 1198.5 | 1169.2 | 1062.9 | 918.1  | 784.3  |
| 50°    | 1130.7 | 1103.2 | 996.9  | 826.5  | 716.5  |
| 52.5°  | 1055.6 | 1035.4 | 925.5  | 747.7  | 659.7  |
| 55°    | 984.1  | 969.4  | 854.0  | 678.1  | 608.4  |
| 57.5°  | 909.0  | 894.3  | 782.5  | 612.1  | 557.1  |
| 60°    | 839.3  | 824.7  | 711.0  | 553.4  | 509.5  |
| 62.5°  | 769.7  | 749.5  | 641.4  | 496.6  | 460.0  |
| 65°    | 692.7  | 676.2  | 568.1  | 441.7  | 417.8  |
| 67.5°  | 615.8  | 601.1  | 500.3  | 390.3  | 373.8  |
| 70°    | 538.8  | 526.0  | 430.7  | 340.9  | 331.7  |
| 72.5°  | 463.6  | 447.2  | 368.4  | 291.4  | 287.7  |
| 75°    | 384.8  | 372.0  | 298.7  | 238.2  | 230.9  |
| 77.5°  | 309.7  | 298.7  | 234.6  | 181.4  | 175.9  |
| 80°    | 236.4  | 225.4  | 168.6  | 131.9  | 137.4  |
| 82.5°  | 174.1  | 159.4  | 113.6  | 102.6  | 108.1  |
| 85°    | 106.3  | 93.5   | 73.3   | 69.6   | 69.6   |
| 87.5°  | 36.7   | 34.8   | 33.0   | 38.5   | 40.3   |
| 90°    | 5.5    | 25.7   | 44.0   | 55.0   | 58.6   |
| 92.5°  | 31.2   | 45.8   | 60.5   | 71.5   | 75.1   |
| 95°    | 58.6   | 78.8   | 89.8   | 131.9  | 142.9  |
| 97.5°  | 80.6   | 104.5  | 117.3  | 155.8  | 166.8  |
| 100°   | 102.6  | 124.6  | 164.9  | 185.1  | 197.9  |
| 102.5° | 121.0  | 137.4  | 194.3  | 234.6  | 241.9  |
| 105°   | 137.4  | 142.9  | 205.3  | 274.9  | 291.4  |



TEST NUMBER: P520547

CATALOG NUMBER: 4WSLA-175-L935-UPL15-UNV-U

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 164.9 | 146.6 | 219.9 | 298.7 | 328.0 |
| 115°   | 170.4 | 144.8 | 218.1 | 300.5 | 329.9 |
| 117.5° | 170.4 | 144.8 | 212.6 | 300.5 | 329.9 |
| 120°   | 166.8 | 146.6 | 205.3 | 296.9 | 328.0 |
| 122.5° | 163.1 | 142.9 | 197.9 | 289.5 | 320.7 |
| 125°   | 157.6 | 139.3 | 188.8 | 276.7 | 311.5 |
| 127.5° | 148.4 | 142.9 | 179.6 | 260.2 | 295.0 |
| 130°   | 141.1 | 144.8 | 168.6 | 243.7 | 278.6 |
| 132.5° | 135.6 | 141.1 | 157.6 | 225.4 | 256.6 |
| 135°   | 128.3 | 139.3 | 152.1 | 205.3 | 236.4 |
| 137.5° | 122.8 | 133.8 | 142.9 | 186.9 | 212.6 |
| 140°   | 117.3 | 130.1 | 133.8 | 163.1 | 185.1 |
| 142.5° | 110.0 | 124.6 | 126.4 | 152.1 | 161.3 |
| 145°   | 104.5 | 121.0 | 131.9 | 141.1 | 150.3 |
| 147.5° | 99.0  | 113.6 | 128.3 | 130.1 | 139.3 |
| 150°   | 97.1  | 106.3 | 122.8 | 124.6 | 128.3 |
| 152.5° | 95.3  | 102.6 | 113.6 | 124.6 | 126.4 |
| 155°   | 95.3  | 100.8 | 108.1 | 117.3 | 119.1 |
| 157.5° | 93.5  | 100.8 | 104.5 | 111.8 | 113.6 |
| 160°   | 93.5  | 99.0  | 102.6 | 108.1 | 110.0 |
| 162.5° | 93.5  | 99.0  | 100.8 | 106.3 | 108.1 |
| 165°   | 93.5  | 97.1  | 100.8 | 104.5 | 104.5 |
| 167.5° | 93.5  | 97.1  | 99.0  | 102.6 | 102.6 |
| 170°   | 93.5  | 95.3  | 99.0  | 100.8 | 100.8 |
| 172.5° | 91.6  | 95.3  | 97.1  | 100.8 | 100.8 |
| 175°   | 91.6  | 93.5  | 95.3  | 97.1  | 99.0  |
| 177.5° | 88.0  | 93.5  | 95.3  | 97.1  | 95.3  |
| 180°   | 89.8  | 89.8  | 89.8  | 89.8  | 89.8  |



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







|        |       |       |       |       |       |
|--------|-------|-------|-------|-------|-------|
| 107.5° | 150.3 | 144.8 | 212.6 | 289.5 | 313.4 |
| 110°   | 159.4 | 146.6 | 218.1 | 295.0 | 324.4 |



(END OF REPORT)