

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: P559757

Luminaire Tested: **DL2-WB-M-125U-050D-935-UNV-STD-W-4**

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P559757  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-13, G3-2104-222-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: DL2-WB-M-125U-050D-935-UNV-STD-W-4  
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

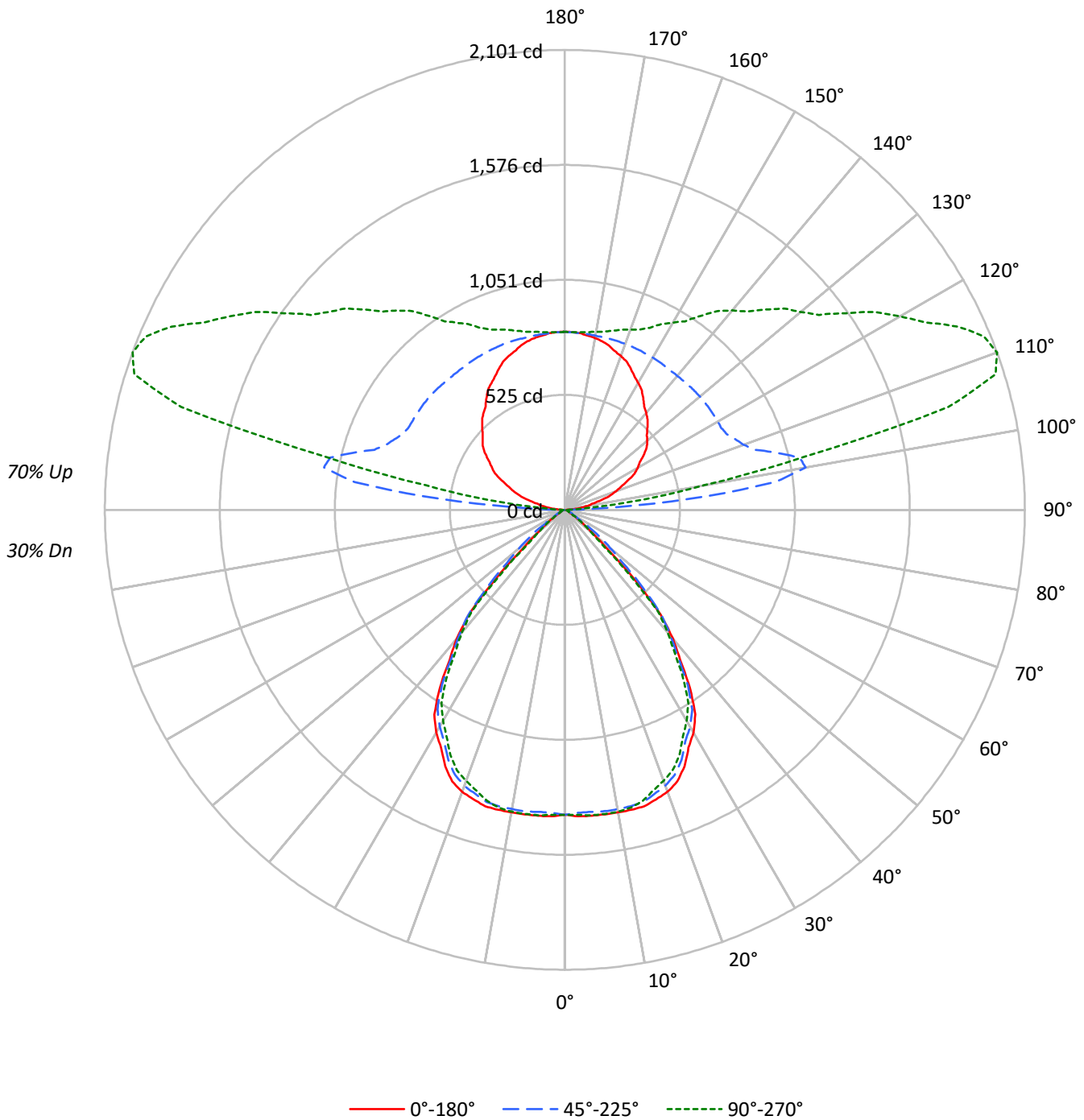
Lumens per Lamp: N/A  
Luminaire Lumens: 7208.9 lumens  
Efficiency: N/A  
Efficacy: 116.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.19 / 1.17  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 62  
Input Voltage (V): 120  
Input Current (Ain): 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: 24 FT



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### Luminous Intensity Polar Plot





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

|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20 |    |    |    | 20 |    |    |    | 20 |    |    |    | 20 |    |
| RC  | 80  |     |     |     | 70 |    |    |    | 50 |    |    |    | 30 |    |    |    | 10 | 0  |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0  |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 102 | 102 | 102 | 102 | 92 | 92 | 92 | 92 | 72 | 72 | 72 | 55 | 55 | 55 | 38 | 38 | 38 | 30 |
| 1   | 94  | 91  | 87  | 84  | 85 | 82 | 79 | 76 | 65 | 63 | 61 | 50 | 48 | 47 | 35 | 35 | 34 | 28 |
| 2   | 87  | 81  | 75  | 71  | 78 | 73 | 68 | 65 | 58 | 55 | 53 | 45 | 43 | 41 | 33 | 32 | 31 | 25 |
| 3   | 80  | 72  | 65  | 60  | 72 | 65 | 60 | 55 | 52 | 49 | 46 | 41 | 38 | 36 | 30 | 29 | 27 | 23 |
| 4   | 74  | 64  | 57  | 52  | 66 | 58 | 52 | 48 | 47 | 43 | 40 | 37 | 34 | 32 | 28 | 26 | 25 | 21 |
| 5   | 68  | 58  | 51  | 45  | 61 | 53 | 46 | 42 | 43 | 39 | 35 | 34 | 31 | 29 | 25 | 24 | 22 | 19 |
| 6   | 63  | 52  | 45  | 40  | 57 | 48 | 41 | 37 | 39 | 35 | 31 | 31 | 28 | 26 | 23 | 22 | 20 | 17 |
| 7   | 58  | 47  | 40  | 35  | 53 | 43 | 37 | 33 | 36 | 31 | 28 | 28 | 25 | 23 | 22 | 20 | 18 | 16 |
| 8   | 54  | 43  | 36  | 31  | 49 | 40 | 33 | 29 | 33 | 28 | 25 | 26 | 23 | 21 | 20 | 18 | 17 | 14 |
| 9   | 51  | 39  | 33  | 28  | 46 | 36 | 30 | 26 | 30 | 26 | 23 | 24 | 21 | 19 | 19 | 17 | 15 | 13 |
| 10  | 47  | 36  | 30  | 25  | 43 | 33 | 28 | 24 | 28 | 23 | 20 | 22 | 19 | 17 | 18 | 16 | 14 | 12 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 22491 | 22491 | 22491 |
| 5°  | 22739 | 22447 | 22707 |
| 10° | 23002 | 22756 | 22953 |
| 15° | 23435 | 23101 | 23000 |
| 20° | 23557 | 23041 | 22646 |
| 25° | 23017 | 22447 | 22019 |
| 30° | 21888 | 21310 | 20732 |
| 35° | 19671 | 19297 | 18607 |
| 40° | 16166 | 15829 | 15365 |
| 45° | 10229 | 11485 | 9225  |
| 50° | 3969  | 6757  | 3642  |
| 55° | 1914  | 3068  | 1942  |
| 60° | 904   | 1518  | 840   |
| 65° | 802   | 879   | 764   |
| 70° | 803   | 803   | 755   |
| 75° | 749   | 811   | 686   |
| 80° | 744   | 744   | 651   |
| 85° | 741   | 741   | 556   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 133.4  | 1.9       |
| 10°-20°   | 391.4  | 5.4       |
| 20°-30°   | 579.5  | 8.0       |
| 30°-40°   | 600.3  | 8.3       |
| 40°-50°   | 360.8  | 5.0       |
| 50°-60°   | 86.3   | 1.2       |
| 60°-70°   | 23.5   | 0.3       |
| 70°-80°   | 13.1   | 0.2       |
| 80°-90°   | 5.1    | 0.1       |
| 90°-100°  | 311.0  | 4.3       |
| 100°-110° | 1012.4 | 14.0      |
| 110°-120° | 1001.4 | 13.9      |
| 120°-130° | 818.4  | 11.4      |
| 130°-140° | 668.9  | 9.3       |
| 140°-150° | 521.0  | 7.2       |
| 150°-160° | 375.5  | 5.2       |
| 160°-170° | 229.5  | 3.2       |
| 170°-180° | 77.4   | 1.1       |
| 0°-30°    | 1104.3 | 15.3      |
| 0°-40°    | 1704.6 | 23.6      |
| 0°-60°    | 2151.7 | 29.8      |
| 0°-90°    | 2193.4 | 30.4      |
| 90°-120°  | 2324.8 | 32.2      |
| 90°-150°  | 4333.0 | 60.1      |
| 90°-180°  | 5015.0 | 69.6      |
| 0°-180°   | 7208.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1393 | 1393  | 1393 | 1393  | 1393 |      |
| 5°   | 1403 | 1398  | 1385 | 1403  | 1401 | 134  |
| 15°  | 1402 | 1411  | 1382 | 1383  | 1376 | 395  |
| 25°  | 1292 | 1304  | 1260 | 1244  | 1236 | 591  |
| 35°  | 998  | 996   | 979  | 961   | 944  | 614  |
| 45°  | 448  | 503   | 503  | 476   | 404  | 343  |
| 55°  | 68   | 78    | 109  | 73    | 69   | 69   |
| 65°  | 21   | 22    | 23   | 21    | 20   | 21   |
| 75°  | 12   | 13    | 13   | 12    | 11   | 13   |
| 85°  | 4    | 4     | 4    | 4     | 3    | 4    |
| 90°  | 0    | 3     | 7    | 6     | 6    | 2    |
| 95°  | 42   | 128   | 570  | 203   | 125  | 49   |
| 105° | 172  | 248   | 1003 | 1916  | 1814 | 183  |
| 115° | 318  | 380   | 817  | 1684  | 1981 | 315  |
| 125° | 442  | 493   | 806  | 1329  | 1567 | 393  |
| 135° | 534  | 590   | 802  | 1147  | 1294 | 412  |
| 145° | 624  | 670   | 800  | 988   | 1082 | 391  |
| 155° | 712  | 735   | 805  | 885   | 918  | 328  |
| 165° | 777  | 784   | 807  | 837   | 847  | 219  |
| 175° | 810  | 810   | 810  | 816   | 814  | 77   |
| 180° | 813  | 813   | 813  | 813   | 813  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1393.0 | 1393.0 | 1393.0 | 1393.0 | 1393.0 |
| 2.5°   | 1401.0 | 1396.3 | 1385.0 | 1397.7 | 1394.6 |
| 5°     | 1403.0 | 1398.1 | 1385.0 | 1403.0 | 1401.0 |
| 7.5°   | 1403.0 | 1399.9 | 1388.8 | 1403.7 | 1400.8 |
| 10°    | 1403.0 | 1403.0 | 1388.0 | 1402.9 | 1400.0 |
| 12.5°  | 1403.8 | 1407.7 | 1387.2 | 1398.1 | 1393.6 |
| 15°    | 1402.0 | 1410.8 | 1382.0 | 1382.8 | 1376.0 |
| 17.5°  | 1387.0 | 1400.7 | 1361.0 | 1353.0 | 1343.6 |
| 20°    | 1371.0 | 1384.7 | 1341.0 | 1325.8 | 1318.0 |
| 22.5°  | 1343.0 | 1357.5 | 1310.6 | 1296.2 | 1287.6 |
| 25°    | 1292.0 | 1303.7 | 1260.0 | 1243.8 | 1236.0 |
| 27.5°  | 1224.4 | 1229.7 | 1191.8 | 1176.6 | 1168.0 |
| 30°    | 1174.0 | 1173.0 | 1143.0 | 1123.7 | 1112.0 |
| 32.5°  | 1109.2 | 1110.6 | 1083.0 | 1064.4 | 1048.8 |
| 35°    | 998.0  | 996.0  | 979.0  | 960.6  | 944.0  |
| 37.5°  | 865.4  | 866.8  | 848.6  | 829.1  | 822.6  |
| 40°    | 767.0  | 769.9  | 751.0  | 730.0  | 729.0  |
| 42.5°  | 647.0  | 668.7  | 655.0  | 633.1  | 629.0  |
| 45°    | 448.0  | 502.8  | 503.0  | 476.4  | 404.0  |
| 47.5°  | 249.2  | 317.6  | 358.6  | 282.8  | 211.4  |
| 50°    | 158.0  | 203.0  | 269.0  | 169.4  | 145.0  |
| 52.5°  | 112.4  | 134.7  | 199.4  | 120.9  | 105.8  |
| 55°    | 68.0   | 77.8   | 109.0  | 72.9   | 69.0   |
| 57.5°  | 41.6   | 50.2   | 63.8   | 49.4   | 41.2   |
| 60°    | 28.0   | 35.8   | 47.0   | 31.9   | 26.0   |
| 62.5°  | 24.8   | 27.1   | 36.6   | 25.6   | 23.6   |
| 65°    | 21.0   | 22.0   | 23.0   | 21.0   | 20.0   |
| 67.5°  | 18.6   | 19.6   | 19.4   | 18.6   | 17.6   |
| 70°    | 17.0   | 18.0   | 17.0   | 17.0   | 16.0   |
| 72.5°  | 15.4   | 15.6   | 15.4   | 14.6   | 14.4   |
| 75°    | 12.0   | 13.0   | 13.0   | 12.0   | 11.0   |
| 77.5°  | 9.6    | 10.4   | 9.6    | 9.6    | 8.6    |
| 80°    | 8.0    | 8.0    | 8.0    | 8.0    | 7.0    |
| 82.5°  | 6.4    | 6.4    | 6.4    | 6.4    | 5.4    |
| 85°    | 4.0    | 4.0    | 4.0    | 4.0    | 3.0    |
| 87.5°  | 1.6    | 2.2    | 3.0    | 2.0    | 2.0    |
| 90°    | 0.0    | 2.9    | 7.0    | 6.0    | 6.0    |
| 92.5°  | 14.4   | 51.7   | 165.4  | 54.5   | 42.0   |
| 95°    | 42.0   | 128.0  | 569.9  | 203.2  | 125.0  |
| 97.5°  | 79.0   | 166.6  | 967.3  | 589.1  | 359.6  |
| 100°   | 103.0  | 189.0  | 1116.9 | 995.9  | 645.9  |
| 102.5° | 130.2  | 213.1  | 1098.5 | 1473.4 | 1120.3 |
| 105°   | 172.0  | 248.2  | 1002.9 | 1915.5 | 1813.8 |
| 107.5° | 217.2  | 288.9  | 912.1  | 1953.8 | 2061.6 |
| 110°   | 250.0  | 315.5  | 868.9  | 1906.2 | 2100.8 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5°  | 90°    |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 277.2 | 341.9 | 841.7 | 1820.3 | 2071.2 |
| 115°   | 318.0 | 379.6 | 816.9 | 1683.6 | 1980.8 |
| 117.5° | 360.0 | 415.5 | 807.3 | 1558.3 | 1854.2 |
| 120°   | 384.0 | 438.7 | 804.9 | 1481.3 | 1767.8 |
| 122.5° | 407.2 | 461.1 | 805.7 | 1414.5 | 1681.4 |
| 125°   | 441.9 | 492.8 | 805.9 | 1329.2 | 1566.8 |
| 127.5° | 471.7 | 523.8 | 805.7 | 1265.4 | 1463.4 |
| 130°   | 490.9 | 543.7 | 804.9 | 1228.9 | 1405.8 |
| 132.5° | 507.7 | 562.9 | 804.1 | 1195.0 | 1361.0 |
| 135°   | 533.9 | 589.7 | 801.9 | 1147.2 | 1293.9 |
| 137.5° | 559.5 | 615.7 | 799.7 | 1098.6 | 1228.9 |
| 140°   | 577.9 | 631.7 | 798.9 | 1065.7 | 1188.9 |
| 142.5° | 595.5 | 647.0 | 798.9 | 1034.2 | 1144.1 |
| 145°   | 623.9 | 669.9 | 799.9 | 988.0  | 1081.9 |
| 147.5° | 651.5 | 691.4 | 801.3 | 948.7  | 1021.3 |
| 150°   | 669.9 | 705.1 | 802.9 | 925.3  | 986.9  |
| 152.5° | 688.3 | 717.3 | 803.7 | 907.4  | 956.5  |
| 155°   | 711.9 | 735.4 | 804.9 | 884.7  | 917.9  |
| 157.5° | 734.3 | 751.1 | 806.1 | 867.8  | 891.1  |
| 160°   | 747.9 | 761.6 | 806.9 | 857.3  | 875.9  |
| 162.5° | 759.9 | 770.5 | 806.9 | 848.4  | 862.3  |
| 165°   | 776.9 | 783.8 | 806.9 | 837.1  | 846.9  |
| 167.5° | 788.9 | 793.2 | 807.1 | 828.6  | 833.7  |
| 170°   | 796.9 | 798.9 | 807.9 | 823.0  | 824.9  |
| 172.5° | 802.5 | 803.7 | 809.5 | 819.7  | 819.3  |
| 175°   | 809.9 | 809.9 | 809.9 | 815.9  | 813.9  |
| 177.5° | 812.9 | 812.1 | 811.3 | 815.2  | 812.1  |
| 180°   | 812.9 | 812.9 | 812.9 | 812.9  | 812.9  |

(END OF REPORT)