

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: P559762

Luminaire Tested: **DL2-WB-M-125U-100D-930-UNV-STD-W-4**

Issue Date: 3/5/2020

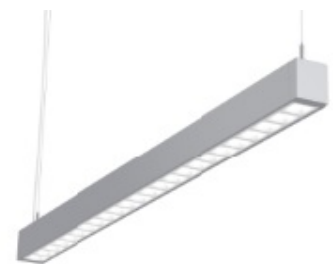
**Test Information**

Test Method: LM-79-08  
Report Number: P559762  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-13, G3-2104-222-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: DL2-WB-M-125U-100D-930-UNV-STD-W-4  
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

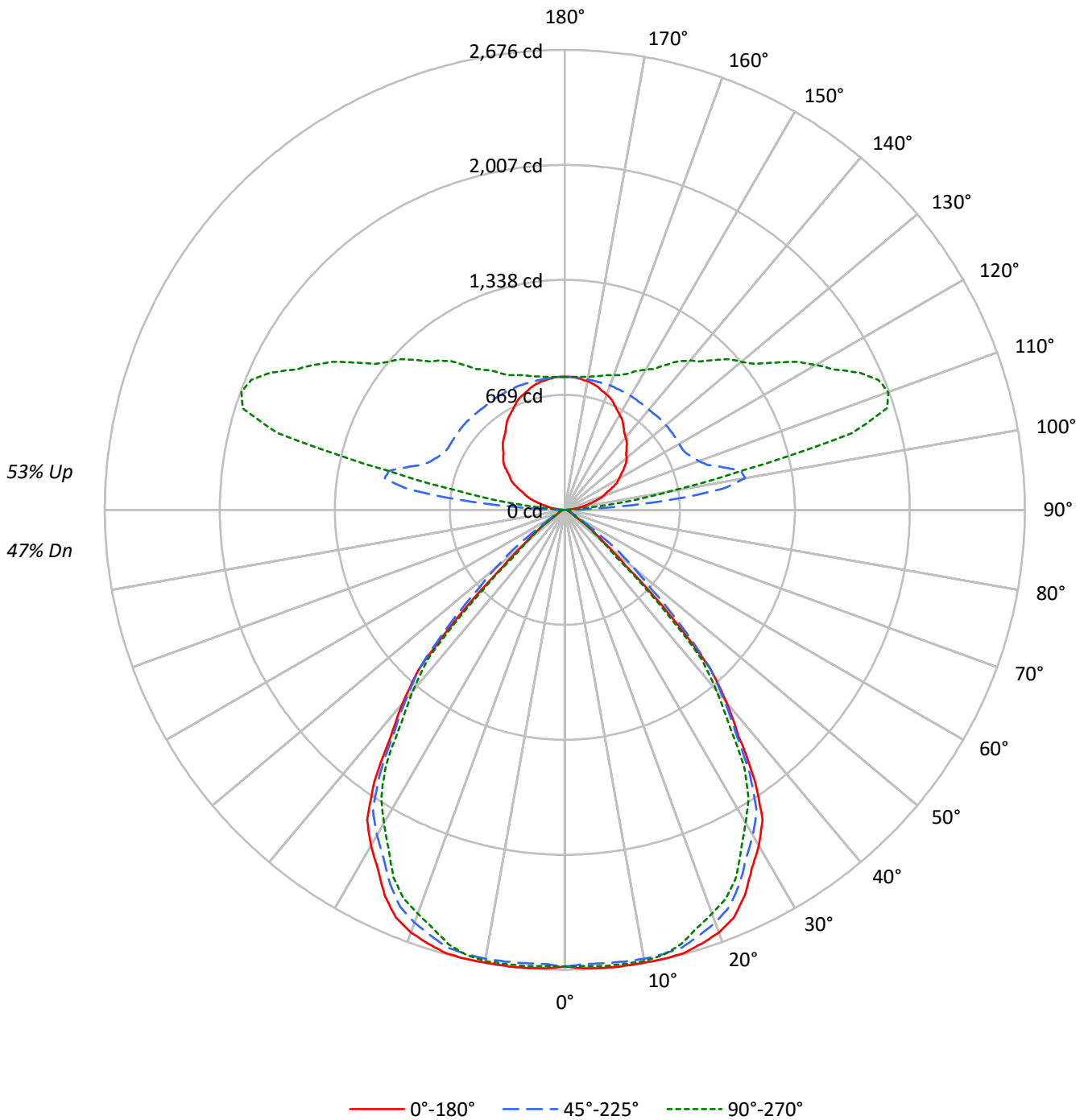
Lumens per Lamp: N/A  
Luminaire Lumens: 8974.2 lumens  
Efficiency: N/A  
Efficacy: 109.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.18 / 1.17  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 82  
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





TEST NUMBER: P559762

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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 | 50 | 30 | 10 | 0  |    |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 106 | 106 | 106 | 106 | 98 | 98 | 98 | 98 | 82 | 82 | 82 | 67 | 67 | 67 | 53 | 53 | 53 | 47 |    |    |    | 47 |
| 1   | 99  | 95  | 92  | 89  | 91 | 88 | 85 | 82 | 74 | 72 | 70 | 61 | 60 | 59 | 49 | 49 | 48 | 43 |    |    |    | 43 |
| 2   | 91  | 85  | 80  | 76  | 84 | 79 | 74 | 71 | 67 | 64 | 61 | 56 | 54 | 52 | 46 | 44 | 43 | 39 |    |    |    | 39 |
| 3   | 85  | 76  | 70  | 65  | 78 | 71 | 66 | 61 | 61 | 57 | 54 | 51 | 48 | 46 | 42 | 40 | 39 | 35 |    |    |    | 35 |
| 4   | 78  | 69  | 62  | 57  | 72 | 64 | 58 | 54 | 55 | 51 | 47 | 47 | 44 | 41 | 39 | 37 | 35 | 32 |    |    |    | 32 |
| 5   | 73  | 62  | 55  | 50  | 67 | 58 | 52 | 47 | 50 | 46 | 42 | 43 | 40 | 37 | 36 | 34 | 32 | 29 |    |    |    | 29 |
| 6   | 67  | 57  | 49  | 44  | 62 | 53 | 47 | 42 | 46 | 41 | 38 | 39 | 36 | 33 | 33 | 31 | 29 | 26 |    |    |    | 26 |
| 7   | 63  | 52  | 45  | 40  | 58 | 48 | 42 | 38 | 42 | 37 | 34 | 36 | 33 | 30 | 31 | 28 | 26 | 24 |    |    |    | 24 |
| 8   | 59  | 47  | 40  | 36  | 54 | 44 | 38 | 34 | 39 | 34 | 31 | 34 | 30 | 27 | 29 | 26 | 24 | 22 |    |    |    | 22 |
| 9   | 55  | 44  | 37  | 32  | 51 | 41 | 35 | 31 | 36 | 31 | 28 | 31 | 28 | 25 | 27 | 24 | 22 | 20 |    |    |    | 20 |
| 10  | 51  | 40  | 34  | 29  | 48 | 38 | 32 | 28 | 33 | 29 | 25 | 29 | 26 | 23 | 25 | 22 | 21 | 19 |    |    |    | 19 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 42899 | 42899 | 42899 |
| 5°  | 43358 | 42908 | 43188 |
| 10° | 43860 | 43466 | 43702 |
| 15° | 44637 | 44058 | 43721 |
| 20° | 44974 | 43934 | 42959 |
| 25° | 44113 | 42829 | 42006 |
| 30° | 42041 | 40768 | 39209 |
| 35° | 38041 | 36941 | 35784 |
| 40° | 30888 | 30260 | 28922 |
| 45° | 19783 | 21980 | 17785 |
| 50° | 7754  | 13019 | 6980  |
| 55° | 3654  | 5956  | 3654  |
| 60° | 1741  | 2887  | 1582  |
| 65° | 1578  | 1654  | 1471  |
| 70° | 1496  | 1544  | 1407  |
| 75° | 1497  | 1497  | 1379  |
| 80° | 1432  | 1432  | 1339  |
| 85° | 1241  | 1241  | 1241  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 254.5  | 2.8       |
| 10°-20°   | 745.9  | 8.3       |
| 20°-30°   | 1107.0 | 12.3      |
| 30°-40°   | 1149.8 | 12.8      |
| 40°-50°   | 691.9  | 7.7       |
| 50°-60°   | 165.9  | 1.8       |
| 60°-70°   | 45.0   | 0.5       |
| 70°-80°   | 25.2   | 0.3       |
| 80°-90°   | 8.8    | 0.1       |
| 90°-100°  | 296.4  | 3.3       |
| 100°-110° | 964.9  | 10.8      |
| 110°-120° | 954.5  | 10.6      |
| 120°-130° | 780.0  | 8.7       |
| 130°-140° | 637.5  | 7.1       |
| 140°-150° | 496.5  | 5.5       |
| 150°-160° | 357.9  | 4.0       |
| 160°-170° | 218.8  | 2.4       |
| 170°-180° | 73.8   | 0.8       |
| 0°-30°    | 2107.3 | 23.5      |
| 0°-40°    | 3257.1 | 36.3      |
| 0°-60°    | 4114.9 | 45.9      |
| 0°-90°    | 4193.9 | 46.7      |
| 90°-120°  | 2215.8 | 24.7      |
| 90°-150°  | 4129.8 | 46.0      |
| 90°-180°  | 4780.0 | 53.3      |
| 0°-180°   | 8974.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2657 | 2657  | 2657 | 2657  | 2657 |      |
| 5°   | 2675 | 2669  | 2647 | 2675  | 2665 | 255  |
| 15°  | 2670 | 2689  | 2636 | 2634  | 2616 | 753  |
| 25°  | 2476 | 2493  | 2404 | 2372  | 2358 | 1133 |
| 35°  | 1930 | 1912  | 1874 | 1836  | 1816 | 1182 |
| 45°  | 866  | 969   | 963  | 916   | 779  | 662  |
| 55°  | 130  | 147   | 212  | 141   | 130  | 134  |
| 65°  | 41   | 42    | 43   | 41    | 38   | 41   |
| 75°  | 24   | 25    | 24   | 23    | 22   | 25   |
| 85°  | 7    | 8     | 7    | 7     | 7    | 8    |
| 90°  | 0    | 3     | 7    | 6     | 6    | 2    |
| 95°  | 40   | 122   | 543  | 194   | 119  | 47   |
| 105° | 164  | 237   | 956  | 1826  | 1729 | 175  |
| 115° | 303  | 362   | 779  | 1605  | 1888 | 300  |
| 125° | 421  | 470   | 768  | 1267  | 1493 | 375  |
| 135° | 509  | 562   | 764  | 1093  | 1233 | 393  |
| 145° | 595  | 638   | 762  | 942   | 1031 | 372  |
| 155° | 678  | 701   | 767  | 843   | 875  | 313  |
| 165° | 740  | 747   | 769  | 798   | 807  | 209  |
| 175° | 772  | 772   | 772  | 778   | 776  | 73   |
| 180° | 775  | 775   | 775  | 775   | 775  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 2657.0 | 2657.0 | 2657.0 | 2657.0 | 2657.0 |
| 2.5°   | 2670.1 | 2664.0 | 2644.7 | 2666.0 | 2657.0 |
| 5°     | 2675.2 | 2668.7 | 2647.4 | 2675.0 | 2664.7 |
| 7.5°   | 2676.0 | 2676.4 | 2651.2 | 2675.6 | 2664.1 |
| 10°    | 2675.2 | 2680.9 | 2651.2 | 2674.1 | 2665.6 |
| 12.5°  | 2676.0 | 2685.4 | 2648.1 | 2664.8 | 2651.8 |
| 15°    | 2670.4 | 2689.2 | 2635.8 | 2634.4 | 2615.6 |
| 17.5°  | 2646.0 | 2669.3 | 2597.0 | 2574.7 | 2552.5 |
| 20°    | 2617.5 | 2640.1 | 2557.0 | 2524.7 | 2500.2 |
| 22.5°  | 2568.3 | 2591.6 | 2500.0 | 2465.6 | 2447.9 |
| 25°    | 2476.2 | 2493.1 | 2404.1 | 2372.0 | 2357.9 |
| 27.5°  | 2355.0 | 2360.5 | 2282.9 | 2245.6 | 2221.5 |
| 30°    | 2255.0 | 2259.7 | 2186.7 | 2144.4 | 2103.1 |
| 32.5°  | 2140.4 | 2132.3 | 2076.7 | 2030.6 | 1987.7 |
| 35°    | 1930.0 | 1912.1 | 1874.2 | 1836.2 | 1815.5 |
| 37.5°  | 1663.2 | 1658.7 | 1631.1 | 1585.5 | 1560.7 |
| 40°    | 1465.5 | 1480.6 | 1435.7 | 1402.3 | 1372.2 |
| 42.5°  | 1254.0 | 1290.8 | 1251.8 | 1204.7 | 1179.1 |
| 45°    | 866.4  | 968.9  | 962.6  | 916.2  | 778.9  |
| 47.5°  | 481.8  | 610.8  | 688.3  | 539.9  | 399.5  |
| 50°    | 308.7  | 397.1  | 518.3  | 325.9  | 277.9  |
| 52.5°  | 216.4  | 264.9  | 382.9  | 231.0  | 204.8  |
| 55°    | 129.8  | 146.7  | 211.6  | 141.1  | 129.8  |
| 57.5°  | 78.5   | 94.8   | 120.2  | 94.6   | 76.7   |
| 60°    | 53.9   | 68.0   | 89.4   | 63.1   | 49.0   |
| 62.5°  | 46.9   | 52.0   | 69.4   | 49.5   | 44.4   |
| 65°    | 41.3   | 42.3   | 43.3   | 41.3   | 38.5   |
| 67.5°  | 35.6   | 37.5   | 36.5   | 35.7   | 33.7   |
| 70°    | 31.7   | 33.6   | 32.7   | 32.6   | 29.8   |
| 72.5°  | 28.7   | 30.5   | 29.6   | 28.8   | 26.7   |
| 75°    | 24.0   | 25.0   | 24.0   | 23.1   | 22.1   |
| 77.5°  | 18.5   | 19.4   | 19.2   | 18.4   | 17.5   |
| 80°    | 15.4   | 16.3   | 15.4   | 15.4   | 14.4   |
| 82.5°  | 12.3   | 12.5   | 12.3   | 11.5   | 11.3   |
| 85°    | 6.7    | 7.7    | 6.7    | 6.7    | 6.7    |
| 87.5°  | 2.3    | 2.9    | 3.6    | 3.5    | 3.5    |
| 90°    | 0.0    | 2.8    | 6.7    | 5.7    | 5.7    |
| 92.5°  | 13.7   | 49.3   | 157.6  | 52.0   | 40.0   |
| 95°    | 40.0   | 122.0  | 543.2  | 193.7  | 119.1  |
| 97.5°  | 75.3   | 158.8  | 921.9  | 561.5  | 342.7  |
| 100°   | 98.2   | 180.2  | 1064.5 | 949.2  | 615.6  |
| 102.5° | 124.1  | 203.1  | 1047.0 | 1404.3 | 1067.7 |
| 105°   | 163.9  | 236.6  | 955.9  | 1825.6 | 1728.7 |
| 107.5° | 207.0  | 275.4  | 869.3  | 1862.2 | 1964.9 |
| 110°   | 238.2  | 300.7  | 828.2  | 1816.8 | 2002.2 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5°  | 90°    |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 264.2 | 325.9 | 802.2 | 1734.9 | 1974.0 |
| 115°   | 303.1 | 361.8 | 778.6 | 1604.6 | 1887.9 |
| 117.5° | 343.1 | 396.0 | 769.4 | 1485.3 | 1767.2 |
| 120°   | 365.9 | 418.1 | 767.2 | 1411.9 | 1684.9 |
| 122.5° | 388.1 | 439.5 | 767.9 | 1348.2 | 1602.6 |
| 125°   | 421.2 | 469.7 | 768.1 | 1266.9 | 1493.3 |
| 127.5° | 449.6 | 499.2 | 767.9 | 1206.0 | 1394.8 |
| 130°   | 467.9 | 518.2 | 767.2 | 1171.3 | 1339.9 |
| 132.5° | 483.9 | 536.5 | 766.4 | 1139.0 | 1297.2 |
| 135°   | 508.9 | 562.0 | 764.3 | 1093.4 | 1233.2 |
| 137.5° | 533.3 | 586.8 | 762.2 | 1047.1 | 1171.2 |
| 140°   | 550.8 | 602.1 | 761.4 | 1015.7 | 1133.1 |
| 142.5° | 567.6 | 616.6 | 761.4 | 985.7  | 1090.4 |
| 145°   | 594.7 | 638.5 | 762.4 | 941.7  | 1031.1 |
| 147.5° | 621.0 | 659.0 | 763.7 | 904.2  | 973.4  |
| 150°   | 638.5 | 672.1 | 765.3 | 881.9  | 940.6  |
| 152.5° | 656.0 | 683.6 | 766.0 | 864.9  | 911.6  |
| 155°   | 678.5 | 700.9 | 767.2 | 843.2  | 874.8  |
| 157.5° | 699.9 | 715.9 | 768.3 | 827.1  | 849.3  |
| 160°   | 712.8 | 725.9 | 769.1 | 817.1  | 834.8  |
| 162.5° | 724.3 | 734.3 | 769.1 | 808.6  | 821.9  |
| 165°   | 740.5 | 747.0 | 769.1 | 797.9  | 807.2  |
| 167.5° | 751.9 | 756.0 | 769.3 | 789.8  | 794.6  |
| 170°   | 759.5 | 761.4 | 770.0 | 784.4  | 786.2  |
| 172.5° | 764.9 | 766.0 | 771.5 | 781.3  | 780.9  |
| 175°   | 771.9 | 771.9 | 771.9 | 777.6  | 775.7  |
| 177.5° | 774.8 | 774.0 | 773.3 | 777.0  | 774.0  |
| 180°   | 774.8 | 774.8 | 774.8 | 774.8  | 774.8  |

(END OF REPORT)