

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: P559703

Luminaire Tested: **DL2-WB-M-025U-100D-935-UNV-STD-W-4**

Issue Date: 3/5/2020

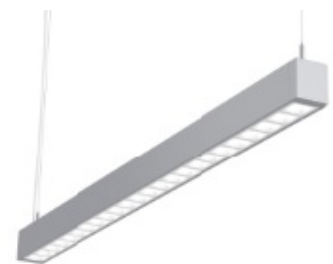
**Test Information**

Test Method: LM-79-08  
Report Number: P559703  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-9, 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-025U-100D-935-UNV-STD-W-4  
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

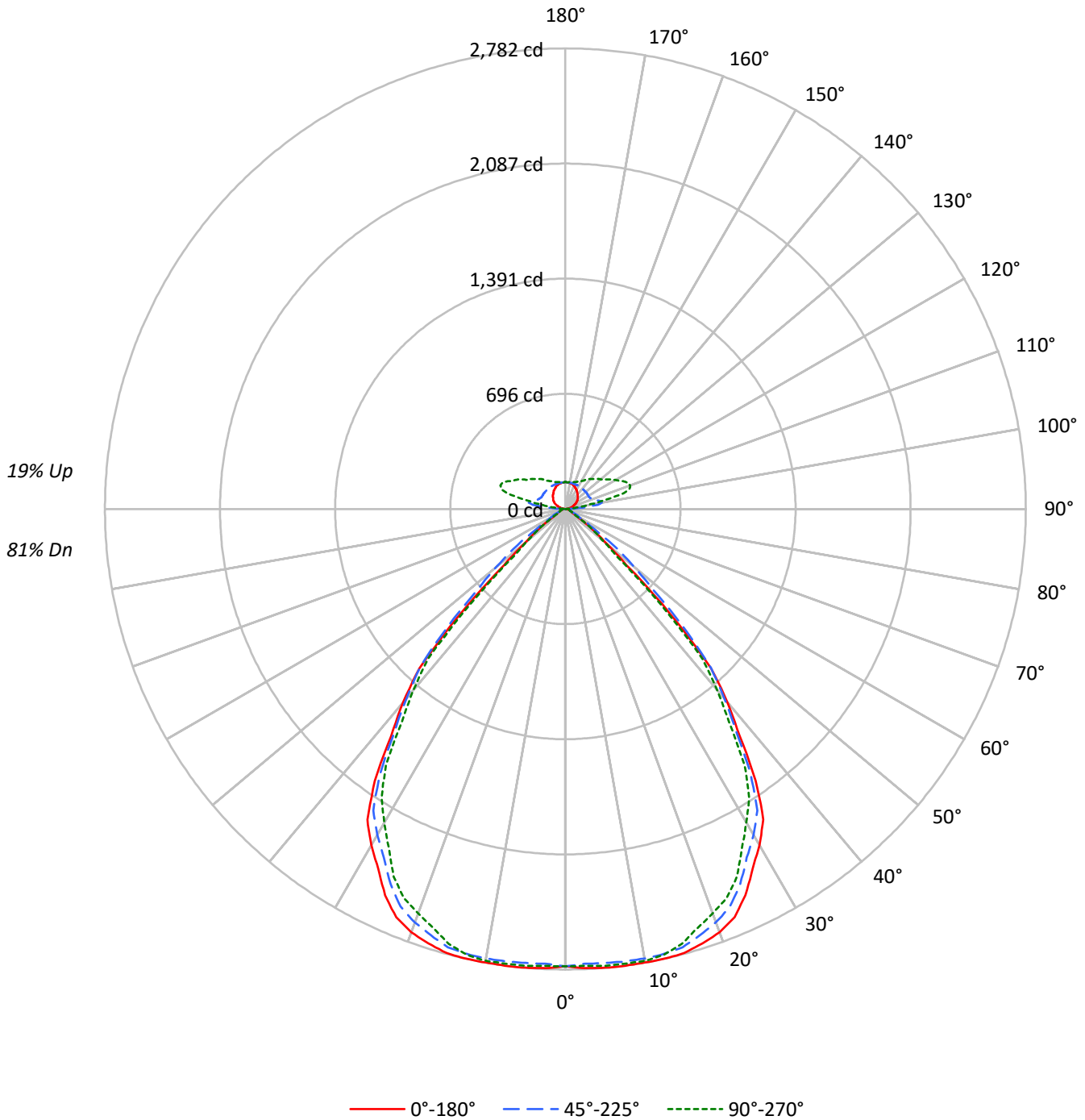
Lumens per Lamp: N/A  
Luminaire Lumens: 5363.0 lumens  
Efficiency: N/A  
Efficacy: 117.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.18 / 1.17  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 45.5  
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   | 115 | 115 | 115 | 115 | 110 | 110 | 110 | 110 | 101 | 101 | 101 | 92 | 92 | 92 | 85 | 85 | 85 | 81 |
| 1   | 108 | 104 | 101 | 99  | 103 | 100 | 98  | 95  | 93  | 91  | 89  | 86 | 84 | 83 | 80 | 78 | 77 | 74 |
| 2   | 101 | 95  | 90  | 86  | 97  | 91  | 87  | 83  | 85  | 82  | 79  | 79 | 77 | 74 | 74 | 72 | 70 | 67 |
| 3   | 94  | 86  | 80  | 75  | 90  | 83  | 78  | 74  | 78  | 74  | 70  | 73 | 70 | 67 | 68 | 66 | 63 | 61 |
| 4   | 88  | 79  | 72  | 67  | 84  | 76  | 70  | 66  | 72  | 67  | 63  | 67 | 63 | 60 | 63 | 60 | 57 | 55 |
| 5   | 82  | 72  | 65  | 60  | 79  | 70  | 64  | 59  | 66  | 61  | 57  | 62 | 58 | 54 | 59 | 55 | 52 | 50 |
| 6   | 77  | 66  | 59  | 54  | 74  | 64  | 58  | 53  | 61  | 55  | 51  | 58 | 53 | 49 | 54 | 51 | 48 | 46 |
| 7   | 72  | 61  | 54  | 49  | 69  | 59  | 53  | 48  | 56  | 51  | 47  | 53 | 49 | 45 | 51 | 47 | 44 | 42 |
| 8   | 67  | 56  | 49  | 45  | 65  | 55  | 48  | 44  | 52  | 47  | 43  | 50 | 45 | 41 | 47 | 43 | 40 | 38 |
| 9   | 63  | 52  | 45  | 41  | 61  | 51  | 45  | 40  | 48  | 43  | 39  | 46 | 41 | 38 | 44 | 40 | 37 | 35 |
| 10  | 60  | 49  | 42  | 37  | 58  | 47  | 41  | 37  | 45  | 40  | 36  | 43 | 38 | 35 | 41 | 37 | 34 | 32 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 44603 | 44603 | 44603 |
| 5°  | 45081 | 44611 | 44903 |
| 10° | 45602 | 45193 | 45439 |
| 15° | 46410 | 45809 | 45458 |
| 20° | 46761 | 45678 | 44665 |
| 25° | 45865 | 44530 | 43675 |
| 30° | 43712 | 42388 | 40766 |
| 35° | 39551 | 38410 | 37207 |
| 40° | 32115 | 31461 | 30070 |
| 45° | 20569 | 22852 | 18493 |
| 50° | 8061  | 13536 | 7257  |
| 55° | 3800  | 6193  | 3800  |
| 60° | 1808  | 3003  | 1647  |
| 65° | 1643  | 1719  | 1528  |
| 70° | 1558  | 1605  | 1463  |
| 75° | 1560  | 1560  | 1435  |
| 80° | 1488  | 1488  | 1395  |
| 85° | 1297  | 1297  | 1297  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 264.6  | 4.9       |
| 10°-20°   | 775.5  | 14.5      |
| 20°-30°   | 1150.9 | 21.5      |
| 30°-40°   | 1195.5 | 22.3      |
| 40°-50°   | 719.4  | 13.4      |
| 50°-60°   | 172.5  | 3.2       |
| 60°-70°   | 46.8   | 0.9       |
| 70°-80°   | 26.2   | 0.5       |
| 80°-90°   | 8.6    | 0.2       |
| 90°-100°  | 65.4   | 1.2       |
| 100°-110° | 203.4  | 3.8       |
| 110°-120° | 199.0  | 3.7       |
| 120°-130° | 162.5  | 3.0       |
| 130°-140° | 132.9  | 2.5       |
| 140°-150° | 103.7  | 1.9       |
| 150°-160° | 74.9   | 1.4       |
| 160°-170° | 45.8   | 0.9       |
| 170°-180° | 15.4   | 0.3       |
| 0°-30°    | 2191.0 | 40.9      |
| 0°-40°    | 3386.5 | 63.1      |
| 0°-60°    | 4278.4 | 79.8      |
| 0°-90°    | 4360.0 | 81.3      |
| 90°-120°  | 467.8  | 8.7       |
| 90°-150°  | 867.0  | 16.2      |
| 90°-180°  | 1003.0 | 18.7      |
| 0°-180°   | 5363.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2762 | 2762  | 2762 | 2762  | 2762 |      |
| 5°   | 2782 | 2775  | 2752 | 2781  | 2770 | 265  |
| 15°  | 2776 | 2796  | 2740 | 2739  | 2720 | 783  |
| 25°  | 2574 | 2592  | 2500 | 2466  | 2452 | 1178 |
| 35°  | 2007 | 1988  | 1949 | 1909  | 1888 | 1229 |
| 45°  | 901  | 1007  | 1001 | 953   | 810  | 688  |
| 55°  | 135  | 153   | 220  | 147   | 135  | 139  |
| 65°  | 43   | 44    | 45   | 43    | 40   | 43   |
| 75°  | 25   | 26    | 25   | 24    | 23   | 26   |
| 85°  | 7    | 8     | 7    | 7     | 7    | 8    |
| 90°  | 0    | 1     | 3    | 3     | 3    | 1    |
| 95°  | 9    | 26    | 120  | 44    | 29   | 10   |
| 105° | 36   | 50    | 200  | 382   | 365  | 38   |
| 115° | 64   | 75    | 163  | 335   | 393  | 63   |
| 125° | 88   | 98    | 161  | 264   | 309  | 78   |
| 135° | 106  | 118   | 160  | 228   | 256  | 82   |
| 145° | 124  | 134   | 160  | 197   | 214  | 78   |
| 155° | 142  | 147   | 161  | 177   | 182  | 65   |
| 165° | 156  | 157   | 162  | 167   | 168  | 44   |
| 175° | 162  | 162   | 162  | 163   | 162  | 15   |
| 180° | 162  | 162   | 162  | 162   | 162  |      |



TEST NUMBER: P559703

CATALOG NUMBER: DL2-WB-M-025U-100D-935-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 2762.5 | 2762.5 | 2762.5 | 2762.5 | 2762.5 |
| 2.5°   | 2776.1 | 2769.8 | 2749.7 | 2771.9 | 2762.5 |
| 5°     | 2781.5 | 2774.7 | 2752.5 | 2781.3 | 2770.5 |
| 7.5°   | 2782.3 | 2782.7 | 2756.5 | 2781.8 | 2769.9 |
| 10°    | 2781.5 | 2787.4 | 2756.5 | 2780.3 | 2771.5 |
| 12.5°  | 2782.3 | 2792.1 | 2753.3 | 2770.6 | 2757.1 |
| 15°    | 2776.5 | 2796.1 | 2740.5 | 2739.1 | 2719.5 |
| 17.5°  | 2751.1 | 2775.4 | 2700.1 | 2677.0 | 2653.9 |
| 20°    | 2721.5 | 2745.0 | 2658.5 | 2625.0 | 2599.5 |
| 22.5°  | 2670.3 | 2694.6 | 2599.3 | 2563.5 | 2545.1 |
| 25°    | 2574.5 | 2592.1 | 2499.6 | 2466.2 | 2451.6 |
| 27.5°  | 2448.6 | 2454.2 | 2373.6 | 2334.8 | 2309.8 |
| 30°    | 2344.6 | 2349.5 | 2273.6 | 2229.6 | 2186.6 |
| 32.5°  | 2225.4 | 2217.0 | 2159.2 | 2111.2 | 2066.6 |
| 35°    | 2006.6 | 1988.1 | 1948.7 | 1909.2 | 1887.7 |
| 37.5°  | 1729.3 | 1724.6 | 1695.9 | 1648.5 | 1622.7 |
| 40°    | 1523.7 | 1539.4 | 1492.7 | 1458.0 | 1426.7 |
| 42.5°  | 1303.8 | 1342.1 | 1301.6 | 1252.6 | 1226.0 |
| 45°    | 900.8  | 1007.4 | 1000.8 | 952.6  | 809.9  |
| 47.5°  | 500.9  | 635.0  | 715.7  | 561.4  | 415.3  |
| 50°    | 320.9  | 412.8  | 538.9  | 338.8  | 288.9  |
| 52.5°  | 225.0  | 275.4  | 398.1  | 240.1  | 213.0  |
| 55°    | 135.0  | 152.6  | 220.0  | 146.7  | 135.0  |
| 57.5°  | 81.6   | 98.6   | 125.0  | 98.4   | 79.8   |
| 60°    | 56.0   | 70.7   | 93.0   | 65.7   | 51.0   |
| 62.5°  | 48.8   | 54.1   | 72.2   | 51.5   | 46.2   |
| 65°    | 43.0   | 44.0   | 45.0   | 42.9   | 40.0   |
| 67.5°  | 37.0   | 38.9   | 38.0   | 37.1   | 35.0   |
| 70°    | 33.0   | 34.9   | 34.0   | 33.9   | 31.0   |
| 72.5°  | 29.8   | 31.7   | 30.8   | 29.9   | 27.8   |
| 75°    | 25.0   | 26.0   | 25.0   | 24.0   | 23.0   |
| 77.5°  | 19.2   | 20.2   | 20.0   | 19.2   | 18.2   |
| 80°    | 16.0   | 17.0   | 16.0   | 16.0   | 15.0   |
| 82.5°  | 12.8   | 13.0   | 12.8   | 12.0   | 11.8   |
| 85°    | 7.0    | 8.0    | 7.0    | 7.0    | 7.0    |
| 87.5°  | 2.4    | 2.6    | 3.0    | 3.0    | 3.0    |
| 90°    | 0.0    | 1.0    | 3.0    | 3.0    | 3.0    |
| 92.5°  | 3.2    | 11.1   | 37.9   | 12.4   | 10.1   |
| 95°    | 8.9    | 26.4   | 120.0  | 44.3   | 28.8   |
| 97.5°  | 16.3   | 34.3   | 198.7  | 123.7  | 77.9   |
| 100°   | 21.8   | 38.3   | 224.1  | 209.6  | 139.8  |
| 102.5° | 27.4   | 43.1   | 219.3  | 299.3  | 235.0  |
| 105°   | 35.7   | 50.2   | 200.3  | 382.3  | 364.9  |
| 107.5° | 44.0   | 57.6   | 182.0  | 388.7  | 407.9  |
| 110°   | 49.6   | 63.1   | 172.5  | 379.6  | 417.4  |



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CATALOG NUMBER: DL2-WB-M-025U-100D-935-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 55.1  | 67.9  | 167.8 | 363.2 | 411.1 |
| 115°   | 63.5  | 75.1  | 162.6 | 335.4 | 392.6 |
| 117.5° | 71.6  | 82.2  | 160.4 | 308.9 | 367.4 |
| 120°   | 76.3  | 87.0  | 159.6 | 293.8 | 350.0 |
| 122.5° | 81.1  | 91.8  | 160.4 | 281.0 | 332.5 |
| 125°   | 88.2  | 97.9  | 160.6 | 263.8 | 309.3 |
| 127.5° | 94.0  | 103.9 | 160.6 | 250.9 | 289.7 |
| 130°   | 97.2  | 107.8 | 160.6 | 243.7 | 278.6 |
| 132.5° | 101.1 | 111.8 | 159.8 | 237.3 | 269.9 |
| 135°   | 106.1 | 117.7 | 159.6 | 227.7 | 255.8 |
| 137.5° | 111.8 | 122.5 | 159.6 | 218.1 | 243.7 |
| 140°   | 115.0 | 125.7 | 159.6 | 211.7 | 235.0 |
| 142.5° | 119.0 | 128.9 | 159.6 | 205.3 | 226.2 |
| 145°   | 123.9 | 133.6 | 159.6 | 196.7 | 214.2 |
| 147.5° | 129.9 | 138.2 | 160.6 | 188.7 | 202.5 |
| 150°   | 133.8 | 140.6 | 160.6 | 184.7 | 195.3 |
| 152.5° | 137.0 | 143.0 | 160.6 | 180.7 | 189.8 |
| 155°   | 141.8 | 146.6 | 160.6 | 176.6 | 182.4 |
| 157.5° | 146.5 | 150.2 | 160.6 | 173.0 | 176.7 |
| 160°   | 149.7 | 152.6 | 160.6 | 170.6 | 173.5 |
| 162.5° | 152.1 | 154.2 | 160.6 | 169.0 | 171.1 |
| 165°   | 155.7 | 156.6 | 161.6 | 166.6 | 168.5 |
| 167.5° | 157.8 | 158.0 | 160.6 | 165.2 | 166.2 |
| 170°   | 158.6 | 159.6 | 160.6 | 163.6 | 164.6 |
| 172.5° | 160.2 | 160.4 | 161.4 | 162.8 | 163.0 |
| 175°   | 161.6 | 161.6 | 161.6 | 162.6 | 161.6 |
| 177.5° | 161.6 | 161.6 | 161.6 | 161.6 | 161.6 |
| 180°   | 161.6 | 161.6 | 161.6 | 161.6 | 161.6 |

(END OF REPORT)