

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P709934

Luminaire Tested: DL2R-WB-M-125D-935-UNV-STD-W-4

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P709934  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: DL2R-WB-M-125D-935-UNV-STD-W-4  
Description: CORELITE DISCREET DL2R RECESSED LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

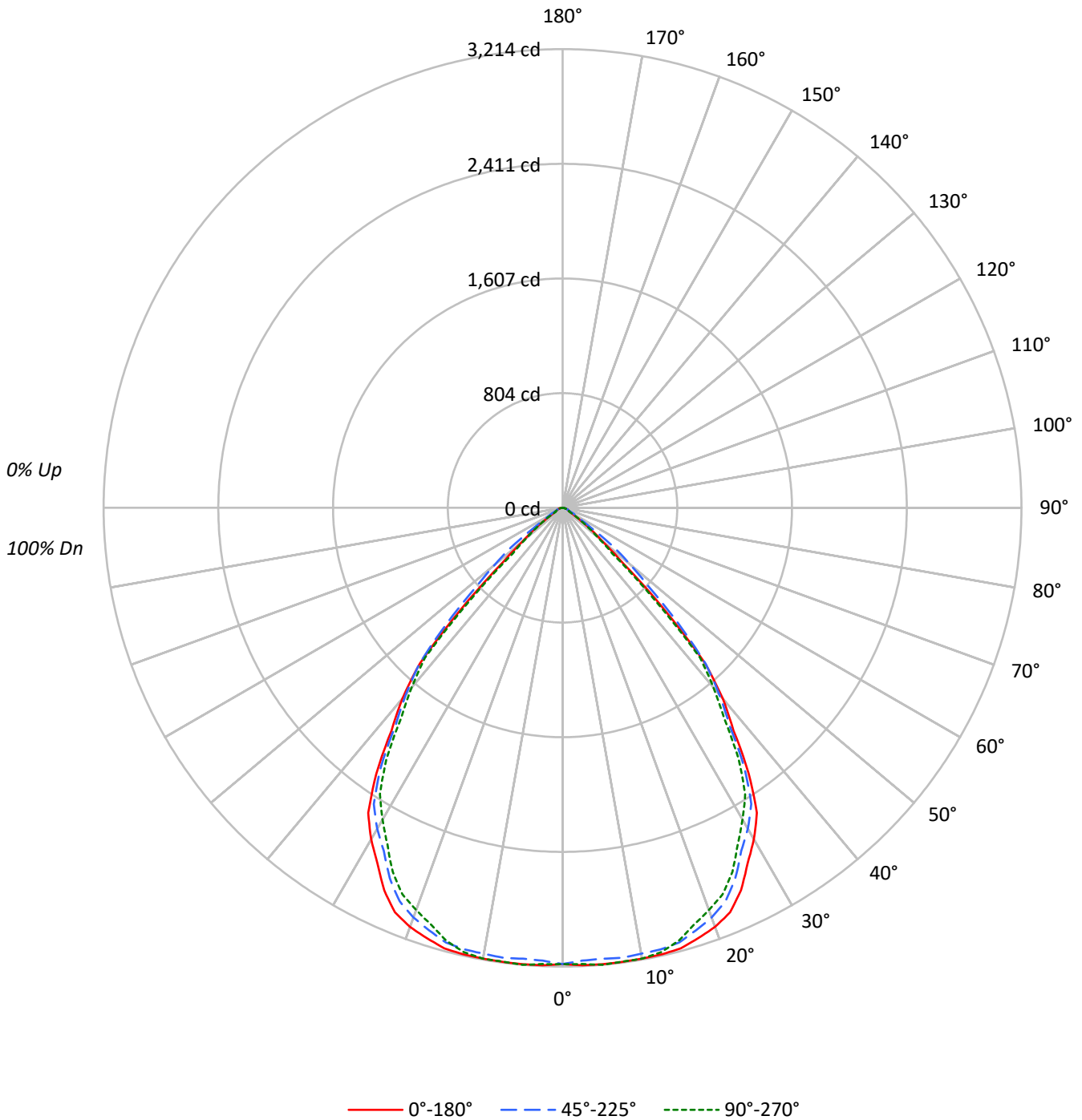
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4992.5 lumens  
Efficiency: N/A  
Efficacy: 109.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.18 / 1.17  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 45.6  
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   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 94  | 93  | 91  |
| 2   | 106 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 87  | 85  | 83  |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 80  | 87  | 83  | 79  | 85  | 81  | 78  | 83  | 79  | 77  | 75  |
| 4   | 93  | 84  | 78  | 73  | 91  | 83  | 77  | 72  | 81  | 75  | 71  | 79  | 74  | 70  | 77  | 73  | 70  | 68  |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 70  | 65  | 74  | 69  | 65  | 73  | 68  | 64  | 71  | 67  | 63  | 62  |
| 6   | 82  | 71  | 64  | 59  | 80  | 70  | 64  | 59  | 69  | 63  | 59  | 67  | 62  | 58  | 66  | 61  | 58  | 56  |
| 7   | 77  | 66  | 59  | 54  | 75  | 65  | 59  | 54  | 64  | 58  | 54  | 63  | 57  | 53  | 61  | 57  | 53  | 51  |
| 8   | 72  | 61  | 54  | 49  | 71  | 61  | 54  | 49  | 59  | 53  | 49  | 58  | 53  | 49  | 57  | 52  | 49  | 47  |
| 9   | 68  | 57  | 50  | 45  | 67  | 56  | 50  | 45  | 55  | 49  | 45  | 54  | 49  | 45  | 53  | 48  | 45  | 43  |
| 10  | 64  | 53  | 46  | 42  | 63  | 53  | 46  | 42  | 52  | 46  | 42  | 51  | 45  | 42  | 50  | 45  | 41  | 40  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 51609 | 51609 | 51609 |
| 5°  | 52013 | 51391 | 52088 |
| 10° | 52570 | 52015 | 52585 |
| 15° | 53414 | 52709 | 52495 |
| 20° | 53677 | 52464 | 51519 |
| 25° | 52665 | 51001 | 50135 |
| 30° | 49970 | 48382 | 47015 |
| 35° | 44808 | 43741 | 42387 |
| 40° | 36786 | 35974 | 34661 |
| 45° | 23003 | 26122 | 20868 |
| 50° | 9095  | 15450 | 8128  |
| 55° | 4414  | 7018  | 4360  |
| 60° | 2073  | 3433  | 1896  |
| 65° | 1857  | 1994  | 1788  |
| 70° | 1817  | 1860  | 1690  |
| 75° | 1772  | 1772  | 1603  |
| 80° | 1702  | 1702  | 1534  |
| 85° | 1519  | 1519  | 1519  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 26122 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 305.4  | 6.1       |
| 10°-20°   | 892.7  | 17.9      |
| 20°-30°   | 1319.7 | 26.4      |
| 30°-40°   | 1363.7 | 27.3      |
| 40°-50°   | 820.5  | 16.4      |
| 50°-60°   | 197.2  | 4.0       |
| 60°-70°   | 53.8   | 1.1       |
| 70°-80°   | 30.0   | 0.6       |
| 80°-90°   | 9.4    | 0.2       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 2517.8 | 50.4      |
| 0°-40°    | 3881.5 | 77.7      |
| 0°-60°    | 4899.2 | 98.1      |
| 0°-90°    | 4992.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4992.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3196 | 3196  | 3196 | 3196  | 3196 |      |
| 5°  | 3209 | 3199  | 3171 | 3216  | 3214 | 306  |
| 15° | 3196 | 3220  | 3153 | 3154  | 3140 | 901  |
| 25° | 2956 | 2979  | 2863 | 2822  | 2814 | 1351 |
| 35° | 2273 | 2268  | 2219 | 2176  | 2150 | 1399 |
| 45° | 1007 | 1144  | 1144 | 1082  | 914  | 780  |
| 55° | 157  | 176   | 249  | 168   | 155  | 159  |
| 65° | 49   | 51    | 52   | 49    | 47   | 49   |
| 75° | 28   | 30    | 28   | 28    | 26   | 30   |
| 85° | 8    | 9     | 8    | 8     | 8    | 10   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 3196.4 | 3196.4 | 3196.4 | 3196.4 | 3196.4 |
| 2.5°  | 3208.2 | 3200.3 | 3175.2 | 3204.4 | 3199.4 |
| 5°    | 3209.2 | 3199.4 | 3170.8 | 3215.7 | 3213.8 |
| 7.5°  | 3208.7 | 3203.5 | 3179.2 | 3213.6 | 3206.7 |
| 10°   | 3206.5 | 3209.2 | 3172.6 | 3210.1 | 3207.4 |
| 12.5° | 3205.0 | 3217.0 | 3168.9 | 3195.3 | 3188.4 |
| 15°   | 3195.5 | 3219.7 | 3153.3 | 3154.0 | 3140.5 |
| 17.5° | 3160.7 | 3190.1 | 3104.0 | 3078.5 | 3061.5 |
| 20°   | 3124.0 | 3152.7 | 3053.4 | 3015.5 | 2998.4 |
| 22.5° | 3066.8 | 3093.3 | 2983.0 | 2944.4 | 2930.2 |
| 25°   | 2956.2 | 2978.6 | 2862.8 | 2822.2 | 2814.2 |
| 27.5° | 2807.2 | 2816.7 | 2710.2 | 2670.5 | 2656.7 |
| 30°   | 2680.3 | 2681.2 | 2595.1 | 2547.8 | 2521.8 |
| 32.5° | 2532.9 | 2526.7 | 2460.2 | 2412.7 | 2380.2 |
| 35°   | 2273.3 | 2267.9 | 2219.2 | 2176.5 | 2150.5 |
| 37.5° | 1968.3 | 1967.3 | 1921.0 | 1884.1 | 1857.9 |
| 40°   | 1745.3 | 1751.6 | 1706.8 | 1660.6 | 1644.5 |
| 42.5° | 1478.4 | 1524.8 | 1486.8 | 1436.3 | 1426.0 |
| 45°   | 1007.4 | 1143.6 | 1144.0 | 1081.5 | 913.9  |
| 47.5° | 576.2  | 723.2  | 823.4  | 637.4  | 473.2  |
| 50°   | 362.1  | 473.2  | 615.1  | 388.1  | 323.6  |
| 52.5° | 257.2  | 311.7  | 455.2  | 273.0  | 241.4  |
| 55°   | 156.8  | 176.5  | 249.3  | 168.4  | 154.9  |
| 57.5° | 95.0   | 113.4  | 144.5  | 112.9  | 95.3   |
| 60°   | 64.2   | 81.2   | 106.3  | 74.8   | 58.7   |
| 62.5° | 56.8   | 63.1   | 83.6   | 58.8   | 52.8   |
| 65°   | 48.6   | 51.2   | 52.2   | 48.6   | 46.8   |
| 67.5° | 42.9   | 44.7   | 43.8   | 42.8   | 40.2   |
| 70°   | 38.5   | 40.3   | 39.4   | 38.4   | 35.8   |
| 72.5° | 34.1   | 35.9   | 35.0   | 34.1   | 32.1   |
| 75°   | 28.4   | 30.2   | 28.4   | 27.5   | 25.7   |
| 77.5° | 22.0   | 23.6   | 22.7   | 22.0   | 20.2   |
| 80°   | 18.3   | 19.2   | 18.3   | 18.3   | 16.5   |
| 82.5° | 14.7   | 14.8   | 13.9   | 13.9   | 12.8   |
| 85°   | 8.2    | 9.2    | 8.2    | 8.2    | 8.2    |
| 87.5° | 2.9    | 2.9    | 2.9    | 2.9    | 2.2    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)