

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

(formerly Eaton)

Brand: CORELITE

Report Number: P571640

Luminaire Tested: **DL2-WB-M-0U-XD-935-UNV-X-BSL6-W-4**

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P571640  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-0U-XD-935-UNV-X-BSL6-W-4  
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: -  
Ballast/Driver: BODINE 6 WATT (OUTPUT POWER) EMERGENCY BATTERY PACK

**Summary**

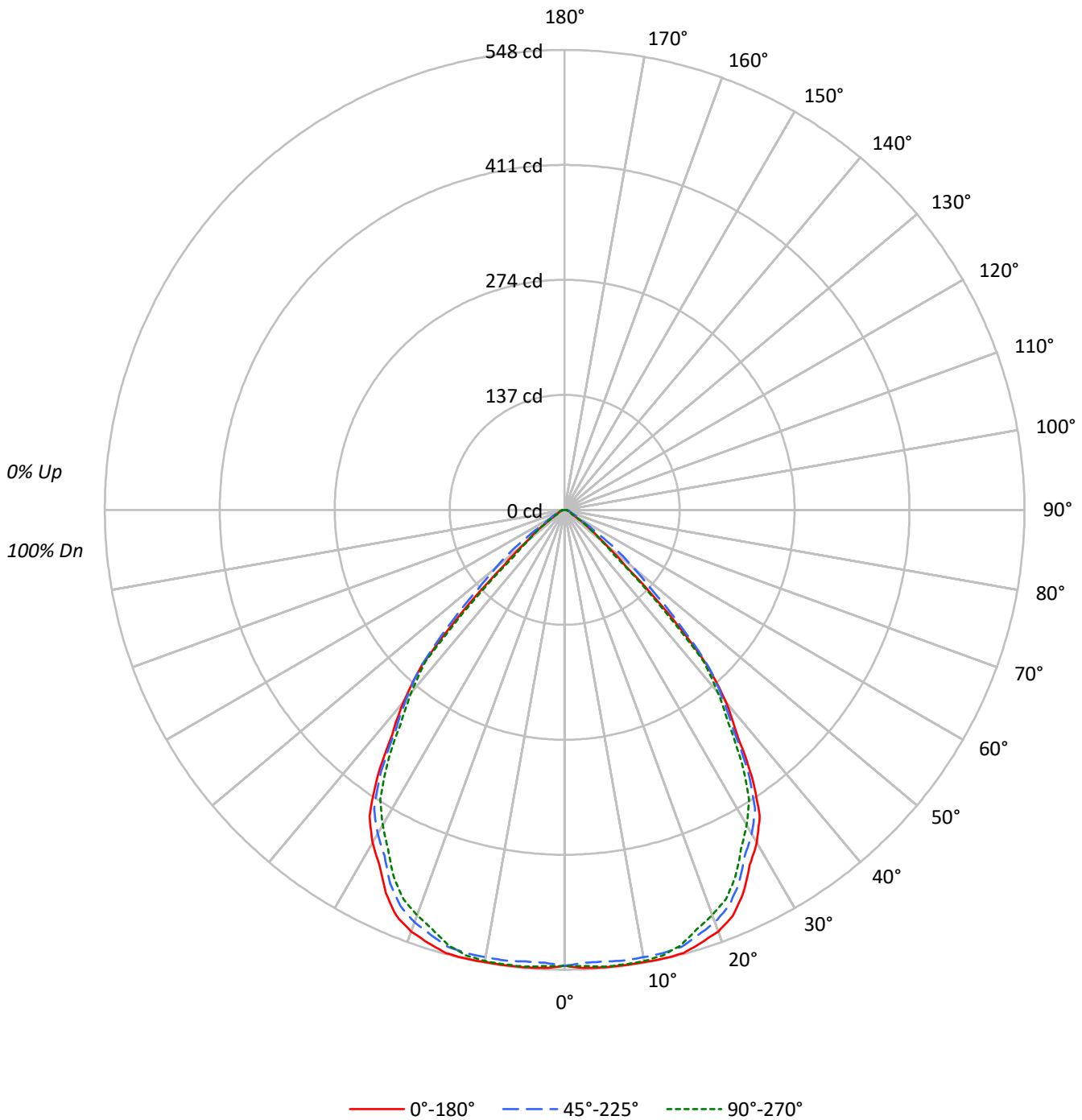
Lumens per Lamp: N/A  
Luminaire Lumens: 855.1 lumens  
Efficiency: N/A  
Efficacy: 142.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.19 / 1.17  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 6  
Input Voltage (V): NR  
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: P571640

CATALOG NUMBER: DL2-WB-M-OU-XD-935-UNV-X-BSL6-W-4

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

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 8772 | 8772 | 8772 |
| 5°  | 8869 | 8754 | 8856 |
| 10° | 8971 | 8875 | 8952 |
| 15° | 9140 | 9010 | 8969 |
| 20° | 9187 | 8986 | 8832 |
| 25° | 8977 | 8754 | 8587 |
| 30° | 8535 | 8311 | 8086 |
| 35° | 7671 | 7525 | 7257 |
| 40° | 6304 | 6173 | 5992 |
| 45° | 3989 | 4480 | 3599 |
| 50° | 1547 | 2635 | 1419 |
| 55° | 746  | 1196 | 757  |
| 60° | 352  | 591  | 326  |
| 65° | 313  | 344  | 298  |
| 70° | 312  | 312  | 293  |
| 75° | 293  | 318  | 268  |
| 80° | 288  | 288  | 251  |
| 85° | 296  | 296  | 222  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 52.0   | 6.1       |
| 10°-20°   | 152.6  | 17.8      |
| 20°-30°   | 226.0  | 26.4      |
| 30°-40°   | 234.1  | 27.4      |
| 40°-50°   | 140.7  | 16.5      |
| 50°-60°   | 33.6   | 3.9       |
| 60°-70°   | 9.2    | 1.1       |
| 70°-80°   | 5.1    | 0.6       |
| 80°-90°   | 1.6    | 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°    | 430.7  | 50.4      |
| 0°-40°    | 664.8  | 77.7      |
| 0°-60°    | 839.1  | 98.1      |
| 0°-90°    | 855.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 855.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 543 | 543   | 543 | 543   | 543 |      |
| 5°  | 547 | 545   | 540 | 547   | 546 | 52   |
| 15° | 547 | 550   | 539 | 539   | 537 | 154  |
| 25° | 504 | 508   | 491 | 485   | 482 | 230  |
| 35° | 389 | 388   | 382 | 375   | 368 | 239  |
| 45° | 175 | 196   | 196 | 186   | 158 | 134  |
| 55° | 26  | 30    | 42  | 28    | 27  | 27   |
| 65° | 8   | 9     | 9   | 8     | 8   | 8    |
| 75° | 5   | 5     | 5   | 5     | 4   | 5    |
| 85° | 2   | 2     | 2   | 2     | 1   | 2    |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 543.3 | 543.3 | 543.3 | 543.3 | 543.3 |
| 2.5°  | 546.4 | 544.5 | 540.1 | 545.1 | 543.9 |
| 5°    | 547.2 | 545.2 | 540.1 | 547.2 | 546.4 |
| 7.5°  | 547.2 | 545.9 | 541.6 | 547.4 | 546.3 |
| 10°   | 547.2 | 547.2 | 541.3 | 547.1 | 546.0 |
| 12.5° | 547.5 | 549.0 | 541.0 | 545.2 | 543.5 |
| 15°   | 546.8 | 550.2 | 539.0 | 539.3 | 536.6 |
| 17.5° | 540.9 | 546.3 | 530.8 | 527.7 | 524.0 |
| 20°   | 534.7 | 540.0 | 523.0 | 517.0 | 514.0 |
| 22.5° | 523.8 | 529.4 | 511.1 | 505.5 | 502.2 |
| 25°   | 503.9 | 508.4 | 491.4 | 485.1 | 482.0 |
| 27.5° | 477.5 | 479.6 | 464.8 | 458.9 | 455.5 |
| 30°   | 457.8 | 457.5 | 445.8 | 438.2 | 433.7 |
| 32.5° | 432.6 | 433.1 | 422.4 | 415.1 | 409.0 |
| 35°   | 389.2 | 388.4 | 381.8 | 374.6 | 368.2 |
| 37.5° | 337.5 | 338.0 | 330.9 | 323.3 | 320.8 |
| 40°   | 299.1 | 300.3 | 292.9 | 284.7 | 284.3 |
| 42.5° | 252.3 | 260.8 | 255.4 | 246.9 | 245.3 |
| 45°   | 174.7 | 196.1 | 196.2 | 185.8 | 157.6 |
| 47.5° | 97.2  | 123.9 | 139.9 | 110.3 | 82.4  |
| 50°   | 61.6  | 79.2  | 104.9 | 66.1  | 56.5  |
| 52.5° | 43.8  | 52.5  | 77.8  | 47.1  | 41.3  |
| 55°   | 26.5  | 30.3  | 42.5  | 28.4  | 26.9  |
| 57.5° | 16.2  | 19.6  | 24.9  | 19.3  | 16.1  |
| 60°   | 10.9  | 14.0  | 18.3  | 12.4  | 10.1  |
| 62.5° | 9.7   | 10.6  | 14.3  | 10.0  | 9.2   |
| 65°   | 8.2   | 8.6   | 9.0   | 8.2   | 7.8   |
| 67.5° | 7.3   | 7.6   | 7.6   | 7.3   | 6.9   |
| 70°   | 6.6   | 7.0   | 6.6   | 6.6   | 6.2   |
| 72.5° | 6.0   | 6.1   | 6.0   | 5.7   | 5.6   |
| 75°   | 4.7   | 5.1   | 5.1   | 4.7   | 4.3   |
| 77.5° | 3.7   | 4.1   | 3.7   | 3.7   | 3.4   |
| 80°   | 3.1   | 3.1   | 3.1   | 3.1   | 2.7   |
| 82.5° | 2.5   | 2.5   | 2.5   | 2.5   | 2.1   |
| 85°   | 1.6   | 1.6   | 1.6   | 1.6   | 1.2   |
| 87.5° | 0.6   | 0.6   | 0.6   | 0.3   | 0.3   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)