

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: P189687

Luminaire Tested: **BRG-WD-4L35-LD2-UNV-24-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189687  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34875)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: BRG-WD-4L35-LD2-UNV-24-STD  
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND ROUND PERF INLAY  
LIGHT LEVEL 4 (1260 mA)  
Light Source: (308) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

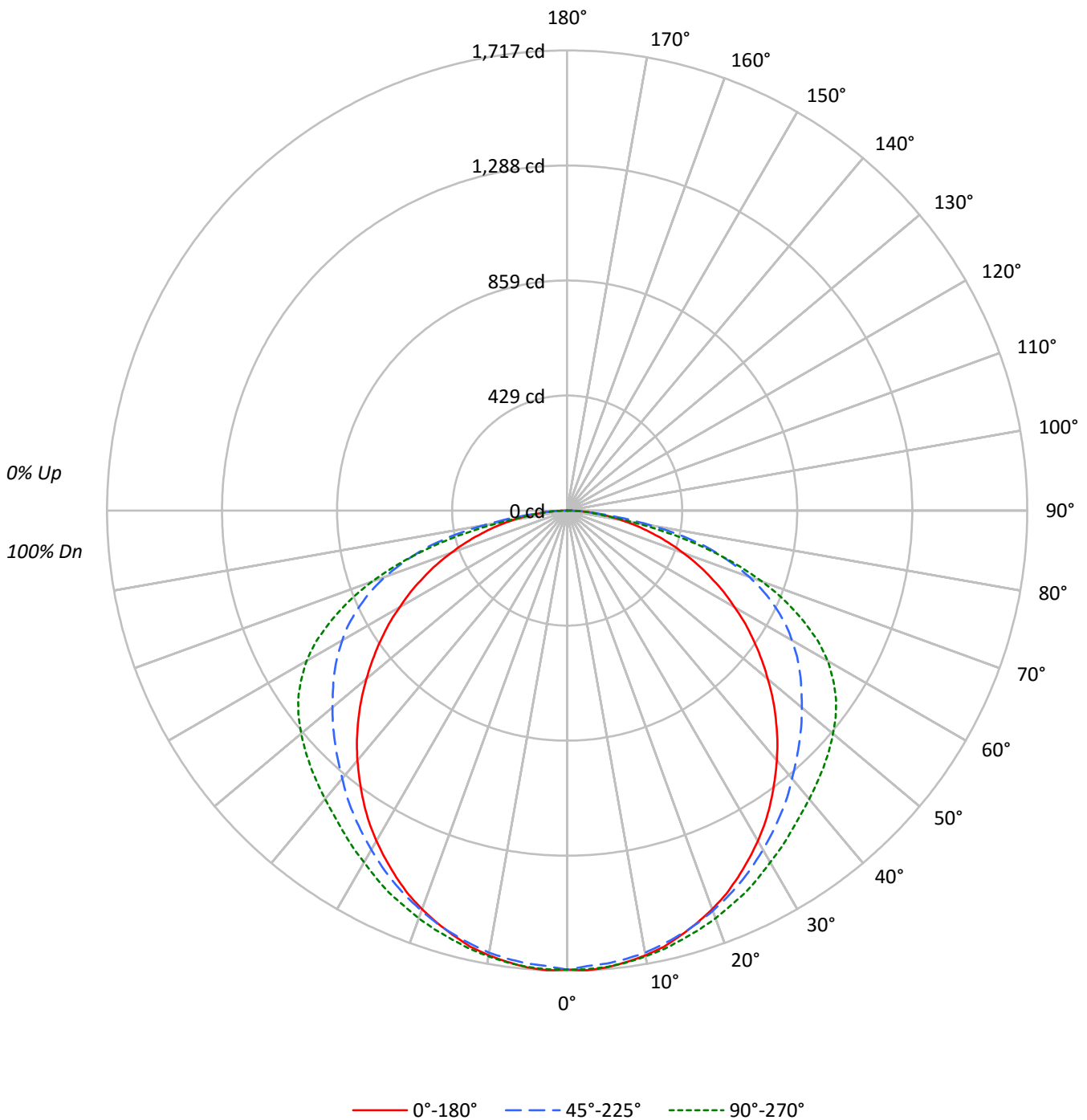
Lumens per Lamp: N/A  
Luminaire Lumens: 5562.7 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.32 / 1.43  
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 58.5  
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: 25 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   | 108 | 103 | 98  | 94  | 105 | 100 | 96  | 92  | 96  | 92  | 89  | 92  | 89  | 87  | 88  | 86  | 84  | 82  |
| 2   | 97  | 88  | 81  | 75  | 95  | 86  | 80  | 74  | 83  | 77  | 72  | 79  | 75  | 70  | 76  | 72  | 69  | 67  |
| 3   | 88  | 77  | 68  | 61  | 86  | 75  | 67  | 61  | 72  | 65  | 59  | 69  | 63  | 58  | 67  | 62  | 57  | 55  |
| 4   | 80  | 68  | 58  | 51  | 78  | 66  | 58  | 51  | 64  | 56  | 50  | 61  | 55  | 49  | 59  | 53  | 49  | 46  |
| 5   | 74  | 60  | 51  | 44  | 71  | 59  | 50  | 43  | 57  | 49  | 43  | 55  | 48  | 42  | 53  | 47  | 42  | 40  |
| 6   | 68  | 54  | 44  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 37  | 49  | 42  | 37  | 48  | 41  | 37  | 34  |
| 7   | 63  | 49  | 40  | 33  | 61  | 48  | 39  | 33  | 46  | 38  | 33  | 45  | 38  | 32  | 43  | 37  | 32  | 30  |
| 8   | 58  | 44  | 35  | 29  | 57  | 44  | 35  | 29  | 42  | 35  | 29  | 41  | 34  | 29  | 40  | 33  | 29  | 27  |
| 9   | 54  | 41  | 32  | 26  | 53  | 40  | 32  | 26  | 39  | 31  | 26  | 38  | 31  | 26  | 37  | 30  | 26  | 24  |
| 10  | 51  | 37  | 29  | 24  | 50  | 37  | 29  | 24  | 36  | 29  | 24  | 35  | 28  | 23  | 34  | 28  | 23  | 22  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2624 | 2624 | 2624 |
| 5°  | 2630 | 2609 | 2627 |
| 10° | 2620 | 2605 | 2627 |
| 15° | 2602 | 2596 | 2627 |
| 20° | 2580 | 2590 | 2639 |
| 25° | 2550 | 2587 | 2658 |
| 30° | 2517 | 2584 | 2679 |
| 35° | 2478 | 2594 | 2728 |
| 40° | 2434 | 2610 | 2809 |
| 45° | 2385 | 2654 | 2931 |
| 50° | 2329 | 2724 | 3086 |
| 55° | 2274 | 2834 | 3272 |
| 60° | 2210 | 2970 | 3441 |
| 65° | 2144 | 3115 | 3520 |
| 70° | 2059 | 3240 | 3473 |
| 75° | 1952 | 3265 | 3111 |
| 80° | 1816 | 2803 | 2115 |
| 85° | 1685 | 1756 | 1545 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 162.0  | 2.9       |
| 10°-20°   | 464.6  | 8.4       |
| 20°-30°   | 708.6  | 12.7      |
| 30°-40°   | 871.0  | 15.7      |
| 40°-50°   | 948.0  | 17.0      |
| 50°-60°   | 939.5  | 16.9      |
| 60°-70°   | 815.1  | 14.7      |
| 70°-80°   | 522.3  | 9.4       |
| 80°-90°   | 131.6  | 2.4       |
| 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°    | 1335.3 | 24.0      |
| 0°-40°    | 2206.3 | 39.7      |
| 0°-60°    | 4093.7 | 73.6      |
| 0°-90°    | 5562.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5562.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1713 | 1713  | 1713 | 1713  | 1713 |      |
| 5°  | 1711 | 1707  | 1697 | 1707  | 1709 | 162  |
| 15° | 1641 | 1641  | 1637 | 1655  | 1657 | 463  |
| 25° | 1509 | 1515  | 1531 | 1561  | 1573 | 695  |
| 35° | 1325 | 1341  | 1387 | 1439  | 1459 | 829  |
| 45° | 1101 | 1141  | 1225 | 1315  | 1353 | 850  |
| 55° | 852  | 929   | 1061 | 1179  | 1225 | 762  |
| 65° | 592  | 718   | 860  | 949   | 971  | 586  |
| 75° | 330  | 490   | 552  | 542   | 526  | 350  |
| 85° | 96   | 148   | 100  | 88    | 88   | 107  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1712.9 | 1712.9 | 1712.9 | 1712.9 | 1712.9 |
| 2.5°  | 1716.9 | 1712.9 | 1700.9 | 1712.9 | 1712.9 |
| 5°    | 1710.9 | 1706.9 | 1696.9 | 1706.9 | 1708.9 |
| 7.5°  | 1698.9 | 1696.9 | 1686.9 | 1698.9 | 1700.9 |
| 10°   | 1684.9 | 1680.9 | 1674.9 | 1686.9 | 1688.9 |
| 12.5° | 1666.9 | 1662.9 | 1657.0 | 1672.9 | 1674.9 |
| 15°   | 1641.0 | 1641.0 | 1637.0 | 1655.0 | 1657.0 |
| 17.5° | 1613.0 | 1615.0 | 1615.0 | 1635.0 | 1639.0 |
| 20°   | 1583.0 | 1585.0 | 1589.0 | 1613.0 | 1619.0 |
| 22.5° | 1549.0 | 1551.0 | 1561.0 | 1589.0 | 1595.0 |
| 25°   | 1509.0 | 1515.0 | 1531.0 | 1561.0 | 1573.0 |
| 27.5° | 1467.1 | 1475.1 | 1497.1 | 1531.0 | 1545.0 |
| 30°   | 1423.1 | 1433.1 | 1461.1 | 1503.0 | 1515.0 |
| 32.5° | 1377.1 | 1389.1 | 1425.1 | 1471.1 | 1489.1 |
| 35°   | 1325.2 | 1341.2 | 1387.1 | 1439.1 | 1459.1 |
| 37.5° | 1271.2 | 1293.2 | 1349.1 | 1409.1 | 1431.1 |
| 40°   | 1217.2 | 1243.2 | 1305.2 | 1377.1 | 1405.1 |
| 42.5° | 1161.3 | 1193.2 | 1265.2 | 1345.1 | 1379.1 |
| 45°   | 1101.3 | 1141.3 | 1225.2 | 1315.2 | 1353.1 |
| 47.5° | 1041.3 | 1087.3 | 1185.2 | 1283.2 | 1325.2 |
| 50°   | 977.4  | 1035.3 | 1143.3 | 1249.2 | 1295.2 |
| 52.5° | 915.4  | 979.4  | 1101.3 | 1215.2 | 1263.2 |
| 55°   | 851.5  | 929.4  | 1061.3 | 1179.3 | 1225.2 |
| 57.5° | 789.5  | 875.4  | 1017.4 | 1133.3 | 1177.3 |
| 60°   | 721.5  | 823.5  | 969.4  | 1081.3 | 1123.3 |
| 62.5° | 659.6  | 771.5  | 919.4  | 1021.4 | 1055.3 |
| 65°   | 591.6  | 717.5  | 859.5  | 949.4  | 971.4  |
| 67.5° | 527.7  | 665.6  | 795.5  | 861.5  | 879.4  |
| 70°   | 459.7  | 613.6  | 723.5  | 771.5  | 775.5  |
| 72.5° | 395.7  | 553.6  | 639.6  | 657.6  | 655.6  |
| 75°   | 329.8  | 489.7  | 551.7  | 541.7  | 525.7  |
| 77.5° | 269.8  | 421.7  | 443.7  | 405.7  | 387.8  |
| 80°   | 205.9  | 345.8  | 317.8  | 257.8  | 239.8  |
| 82.5° | 149.9  | 257.8  | 191.9  | 147.9  | 137.9  |
| 85°   | 95.9   | 147.9  | 99.9   | 87.9   | 87.9   |
| 87.5° | 46.0   | 56.0   | 46.0   | 46.0   | 46.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)