

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: P189681

Luminaire Tested: **BRG-WD-3L30-LD2-UNV-24-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189681  
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-3L30-LD2-UNV-24-STD  
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND ROUND PERF INLAY  
LIGHT LEVEL 3 (1040 mA)  
Light Source: (308) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

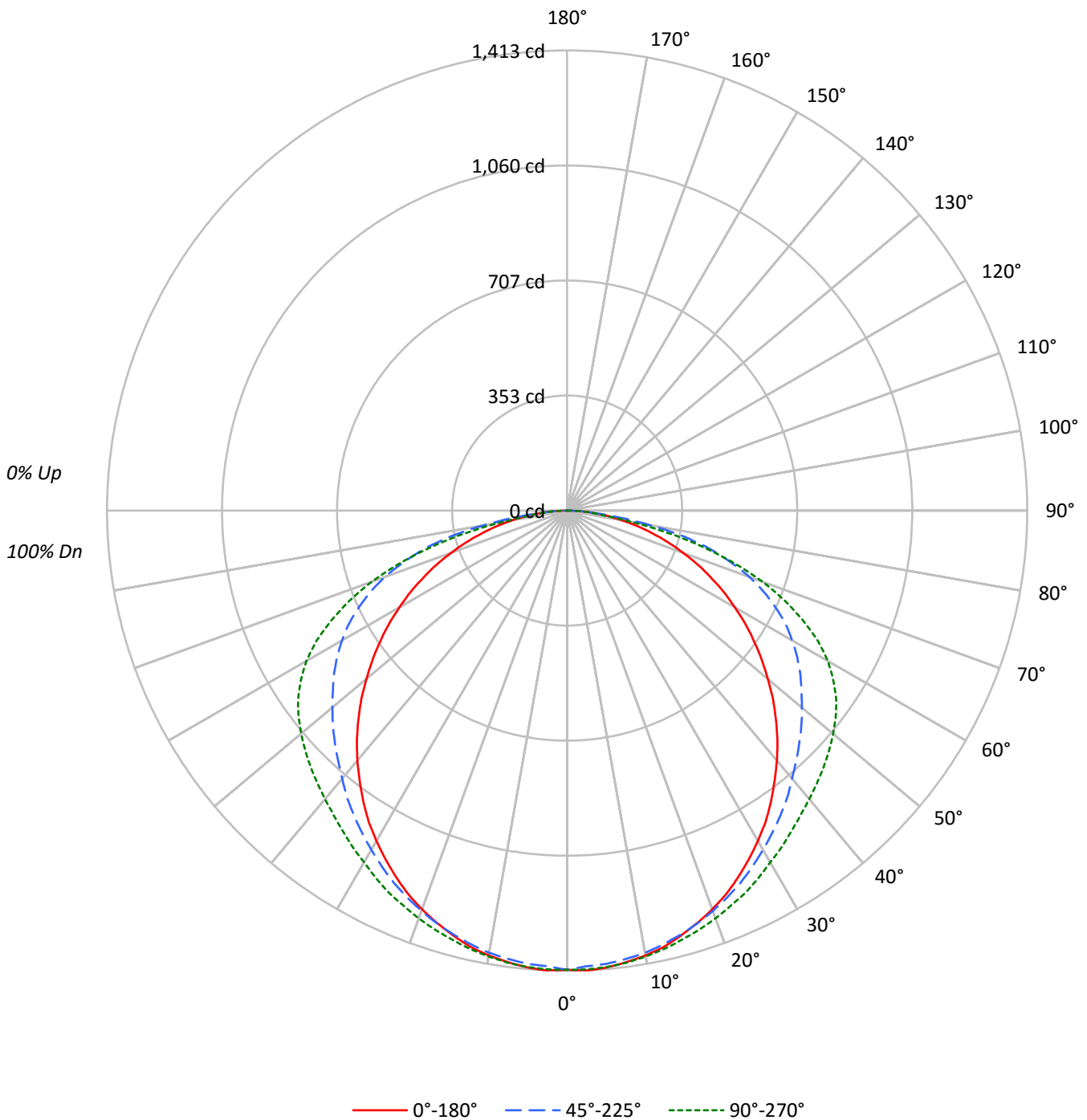
Lumens per Lamp: N/A  
Luminaire Lumens: 4579.0 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.32 / 1.43  
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 47.2  
Input Voltage (V): NR  
Input Current (Ain): 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°  | 2160 | 2160 | 2160 |
| 5°  | 2165 | 2148 | 2163 |
| 10° | 2157 | 2144 | 2162 |
| 15° | 2142 | 2137 | 2163 |
| 20° | 2124 | 2132 | 2172 |
| 25° | 2099 | 2130 | 2188 |
| 30° | 2072 | 2127 | 2206 |
| 35° | 2040 | 2135 | 2246 |
| 40° | 2003 | 2148 | 2313 |
| 45° | 1964 | 2185 | 2413 |
| 50° | 1917 | 2242 | 2541 |
| 55° | 1872 | 2333 | 2693 |
| 60° | 1820 | 2444 | 2833 |
| 65° | 1765 | 2564 | 2898 |
| 70° | 1695 | 2667 | 2859 |
| 75° | 1607 | 2687 | 2561 |
| 80° | 1495 | 2307 | 1741 |
| 85° | 1388 | 1446 | 1272 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 133.4  | 2.9       |
| 10°-20°   | 382.5  | 8.4       |
| 20°-30°   | 583.3  | 12.7      |
| 30°-40°   | 716.9  | 15.7      |
| 40°-50°   | 780.4  | 17.0      |
| 50°-60°   | 773.3  | 16.9      |
| 60°-70°   | 670.9  | 14.7      |
| 70°-80°   | 430.0  | 9.4       |
| 80°-90°   | 108.3  | 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°    | 1099.2 | 24.0      |
| 0°-40°    | 1816.1 | 39.7      |
| 0°-60°    | 3369.8 | 73.6      |
| 0°-90°    | 4579.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4579.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1410 | 1410  | 1410 | 1410  | 1410 |      |
| 5°  | 1408 | 1405  | 1397 | 1405  | 1407 | 134  |
| 15° | 1351 | 1351  | 1348 | 1362  | 1364 | 381  |
| 25° | 1242 | 1247  | 1260 | 1285  | 1295 | 572  |
| 35° | 1091 | 1104  | 1142 | 1185  | 1201 | 682  |
| 45° | 907  | 940   | 1009 | 1083  | 1114 | 699  |
| 55° | 701  | 765   | 874  | 971   | 1009 | 627  |
| 65° | 487  | 591   | 708  | 782   | 800  | 483  |
| 75° | 272  | 403   | 454  | 446   | 433  | 288  |
| 85° | 79   | 122   | 82   | 72    | 72   | 88   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1410.0 | 1410.0 | 1410.0 | 1410.0 | 1410.0 |
| 2.5°  | 1413.3 | 1410.0 | 1400.2 | 1410.0 | 1410.0 |
| 5°    | 1408.4 | 1405.1 | 1396.9 | 1405.1 | 1406.7 |
| 7.5°  | 1398.5 | 1396.9 | 1388.6 | 1398.5 | 1400.2 |
| 10°   | 1387.0 | 1383.7 | 1378.8 | 1388.6 | 1390.3 |
| 12.5° | 1372.2 | 1368.9 | 1364.0 | 1377.1 | 1378.8 |
| 15°   | 1350.8 | 1350.8 | 1347.5 | 1362.3 | 1364.0 |
| 17.5° | 1327.8 | 1329.4 | 1329.4 | 1345.9 | 1349.1 |
| 20°   | 1303.1 | 1304.7 | 1308.0 | 1327.8 | 1332.7 |
| 22.5° | 1275.1 | 1276.8 | 1285.0 | 1308.0 | 1313.0 |
| 25°   | 1242.2 | 1247.1 | 1260.3 | 1285.0 | 1294.9 |
| 27.5° | 1207.7 | 1214.2 | 1232.3 | 1260.3 | 1271.8 |
| 30°   | 1171.5 | 1179.7 | 1202.7 | 1237.3 | 1247.1 |
| 32.5° | 1133.6 | 1143.5 | 1173.1 | 1210.9 | 1225.7 |
| 35°   | 1090.8 | 1104.0 | 1141.8 | 1184.6 | 1201.1 |
| 37.5° | 1046.4 | 1064.5 | 1110.6 | 1159.9 | 1178.0 |
| 40°   | 1002.0 | 1023.4 | 1074.4 | 1133.6 | 1156.6 |
| 42.5° | 955.9  | 982.2  | 1041.5 | 1107.3 | 1135.3 |
| 45°   | 906.6  | 939.5  | 1008.6 | 1082.6 | 1113.9 |
| 47.5° | 857.2  | 895.0  | 975.7  | 1056.3 | 1090.8 |
| 50°   | 804.6  | 852.3  | 941.1  | 1028.3 | 1066.2 |
| 52.5° | 753.5  | 806.2  | 906.6  | 1000.3 | 1039.8 |
| 55°   | 700.9  | 765.1  | 873.7  | 970.7  | 1008.6 |
| 57.5° | 649.9  | 720.6  | 837.5  | 932.9  | 969.1  |
| 60°   | 594.0  | 677.9  | 798.0  | 890.1  | 924.7  |
| 62.5° | 542.9  | 635.1  | 756.8  | 840.7  | 868.7  |
| 65°   | 487.0  | 590.7  | 707.5  | 781.5  | 799.6  |
| 67.5° | 434.4  | 547.9  | 654.8  | 709.1  | 723.9  |
| 70°   | 378.4  | 505.1  | 595.6  | 635.1  | 638.4  |
| 72.5° | 325.8  | 455.7  | 526.5  | 541.3  | 539.7  |
| 75°   | 271.5  | 403.1  | 454.1  | 445.9  | 432.7  |
| 77.5° | 222.1  | 347.2  | 365.3  | 334.0  | 319.2  |
| 80°   | 169.5  | 284.6  | 261.6  | 212.2  | 197.4  |
| 82.5° | 123.4  | 212.2  | 157.9  | 121.8  | 113.5  |
| 85°   | 79.0   | 121.8  | 82.3   | 72.4   | 72.4   |
| 87.5° | 37.8   | 46.1   | 37.8   | 37.8   | 37.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)