

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: P189621

Luminaire Tested: **BRG-WN-3L30-LD2-UNV-14-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189621  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34885)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: BRG-WN-3L30-LD2-UNV-14-STD  
Description: BRIDGE 1x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND NANO PRISM INLAY  
LIGHT LEVEL 3 (865 mA)  
Light Source: (308) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

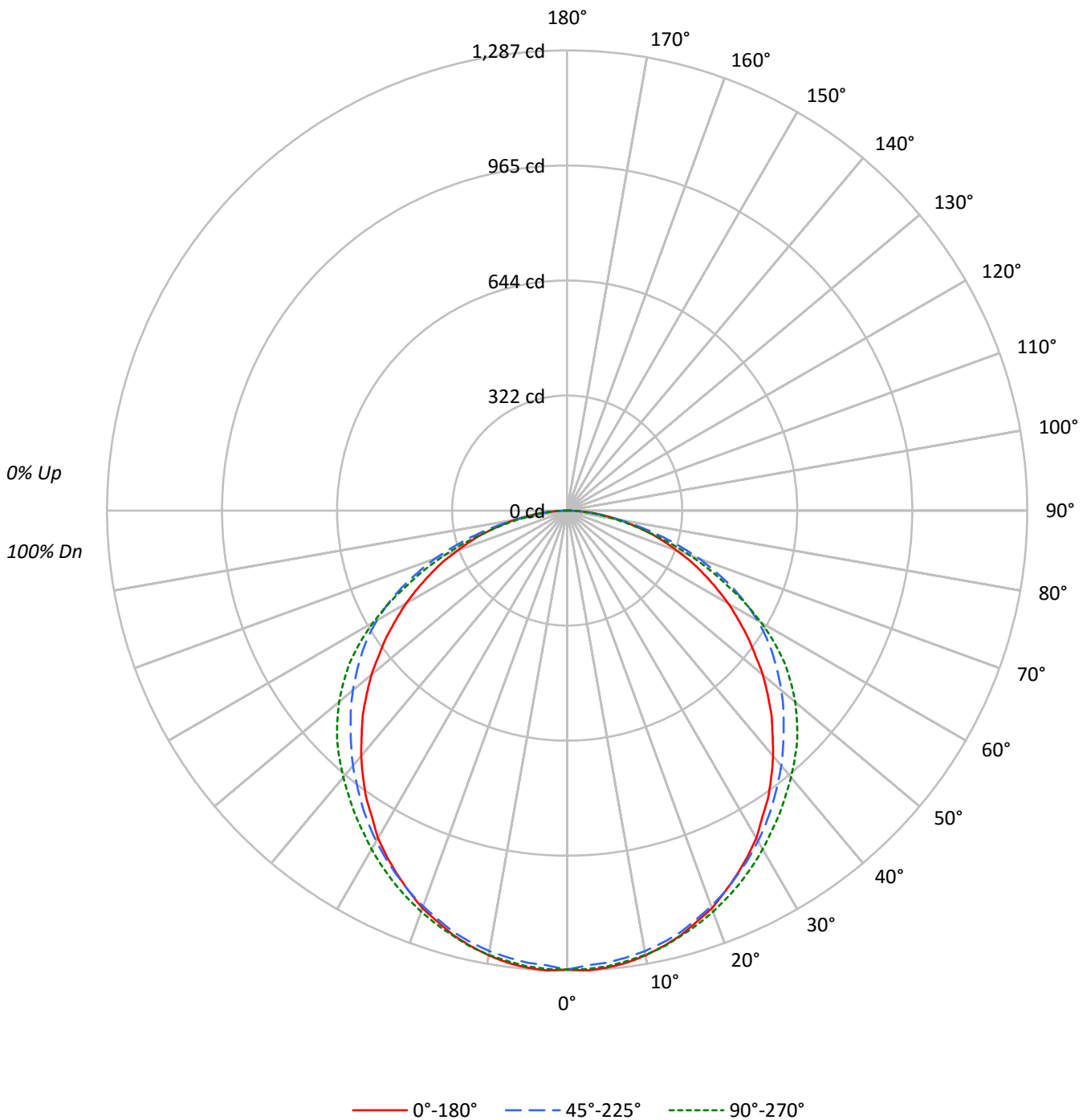
Lumens per Lamp: N/A  
Luminaire Lumens: 3727.8 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38  
Luminous Opening: Rectangular (W 0.92' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 38.7  
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   | 109 | 104 | 99  | 95  | 106 | 101 | 97  | 94  | 97  | 94  | 91  | 93  | 90  | 88  | 90  | 87  | 85  | 83  |
| 2   | 98  | 90  | 83  | 77  | 96  | 88  | 82  | 76  | 85  | 79  | 74  | 81  | 77  | 73  | 78  | 74  | 71  | 69  |
| 3   | 90  | 79  | 71  | 64  | 87  | 77  | 70  | 63  | 74  | 68  | 62  | 71  | 66  | 61  | 69  | 64  | 60  | 58  |
| 4   | 82  | 70  | 61  | 54  | 80  | 68  | 60  | 54  | 66  | 59  | 53  | 63  | 57  | 52  | 61  | 56  | 51  | 49  |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 52  | 46  | 59  | 51  | 45  | 57  | 50  | 45  | 55  | 49  | 44  | 42  |
| 6   | 69  | 56  | 47  | 40  | 67  | 55  | 46  | 40  | 53  | 45  | 40  | 51  | 45  | 39  | 50  | 44  | 39  | 37  |
| 7   | 64  | 51  | 42  | 36  | 63  | 50  | 41  | 35  | 48  | 41  | 35  | 47  | 40  | 35  | 45  | 39  | 35  | 33  |
| 8   | 60  | 46  | 38  | 32  | 58  | 45  | 37  | 32  | 44  | 37  | 31  | 43  | 36  | 31  | 42  | 36  | 31  | 29  |
| 9   | 56  | 42  | 34  | 28  | 54  | 42  | 34  | 28  | 41  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 26  |
| 10  | 52  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 30  | 26  | 37  | 30  | 25  | 36  | 30  | 25  | 24  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3931 | 3931 | 3931 |
| 5°  | 3946 | 3903 | 3934 |
| 10° | 3929 | 3892 | 3923 |
| 15° | 3899 | 3873 | 3905 |
| 20° | 3858 | 3838 | 3891 |
| 25° | 3798 | 3804 | 3879 |
| 30° | 3742 | 3777 | 3869 |
| 35° | 3664 | 3747 | 3873 |
| 40° | 3583 | 3727 | 3894 |
| 45° | 3502 | 3709 | 3943 |
| 50° | 3405 | 3728 | 3966 |
| 55° | 3294 | 3752 | 3965 |
| 60° | 3191 | 3766 | 3839 |
| 65° | 3067 | 3703 | 3573 |
| 70° | 2913 | 3522 | 3271 |
| 75° | 2787 | 3141 | 2787 |
| 80° | 2606 | 2570 | 2359 |
| 85° | 2386 | 2035 | 2035 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 121.4  | 3.3       |
| 10°-20°   | 346.3  | 9.3       |
| 20°-30°   | 522.0  | 14.0      |
| 30°-40°   | 629.3  | 16.9      |
| 40°-50°   | 662.4  | 17.8      |
| 50°-60°   | 617.2  | 16.6      |
| 60°-70°   | 481.8  | 12.9      |
| 70°-80°   | 275.4  | 7.4       |
| 80°-90°   | 72.0   | 1.9       |
| 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°    | 989.6  | 26.5      |
| 0°-40°    | 1619.0 | 43.4      |
| 0°-60°    | 2898.6 | 77.8      |
| 0°-90°    | 3727.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3727.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1283 | 1283  | 1283 | 1283  | 1283 |      |
| 5°  | 1283 | 1279  | 1269 | 1279  | 1279 | 122  |
| 15° | 1229 | 1227  | 1221 | 1233  | 1231 | 346  |
| 25° | 1124 | 1124  | 1126 | 1144  | 1148 | 518  |
| 35° | 980  | 986   | 1002 | 1028  | 1036 | 612  |
| 45° | 808  | 824   | 856  | 896   | 910  | 622  |
| 55° | 617  | 651   | 702  | 734   | 742  | 551  |
| 65° | 423  | 477   | 511  | 503   | 493  | 419  |
| 75° | 236  | 297   | 265  | 244   | 236  | 248  |
| 85° | 68   | 66    | 58   | 56    | 58   | 75   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1283.3 | 1283.3 | 1283.3 | 1283.3 | 1283.3 |
| 2.5°  | 1287.3 | 1285.3 | 1273.3 | 1285.3 | 1283.3 |
| 5°    | 1283.3 | 1279.3 | 1269.3 | 1279.3 | 1279.3 |
| 7.5°  | 1275.3 | 1271.3 | 1261.3 | 1273.3 | 1271.3 |
| 10°   | 1263.3 | 1261.3 | 1251.3 | 1261.3 | 1261.3 |
| 12.5° | 1247.4 | 1245.4 | 1237.4 | 1247.4 | 1249.4 |
| 15°   | 1229.4 | 1227.4 | 1221.4 | 1233.4 | 1231.4 |
| 17.5° | 1205.4 | 1205.4 | 1199.5 | 1213.4 | 1213.4 |
| 20°   | 1183.5 | 1181.5 | 1177.5 | 1191.5 | 1193.5 |
| 22.5° | 1153.6 | 1151.6 | 1153.6 | 1169.5 | 1171.5 |
| 25°   | 1123.6 | 1123.6 | 1125.6 | 1143.6 | 1147.6 |
| 27.5° | 1091.7 | 1093.7 | 1097.7 | 1117.6 | 1121.6 |
| 30°   | 1057.8 | 1059.8 | 1067.7 | 1087.7 | 1093.7 |
| 32.5° | 1015.8 | 1023.8 | 1035.8 | 1057.8 | 1063.7 |
| 35°   | 979.9  | 985.9  | 1001.9 | 1027.8 | 1035.8 |
| 37.5° | 938.0  | 946.0  | 966.0  | 995.9  | 1003.9 |
| 40°   | 896.1  | 906.1  | 932.0  | 962.0  | 973.9  |
| 42.5° | 850.2  | 866.2  | 894.1  | 928.0  | 942.0  |
| 45°   | 808.3  | 824.3  | 856.2  | 896.1  | 910.1  |
| 47.5° | 760.4  | 780.3  | 820.3  | 858.2  | 872.2  |
| 50°   | 714.5  | 736.4  | 782.3  | 820.3  | 832.2  |
| 52.5° | 662.6  | 694.5  | 742.4  | 778.4  | 788.3  |
| 55°   | 616.7  | 650.6  | 702.5  | 734.4  | 742.4  |
| 57.5° | 566.8  | 608.7  | 660.6  | 684.5  | 686.5  |
| 60°   | 520.9  | 566.8  | 614.7  | 626.7  | 626.7  |
| 62.5° | 471.0  | 522.9  | 564.8  | 566.8  | 562.8  |
| 65°   | 423.1  | 477.0  | 510.9  | 502.9  | 493.0  |
| 67.5° | 377.2  | 435.1  | 451.0  | 437.1  | 429.1  |
| 70°   | 325.3  | 391.2  | 393.2  | 371.2  | 365.2  |
| 72.5° | 281.4  | 343.3  | 329.3  | 305.4  | 299.4  |
| 75°   | 235.5  | 297.4  | 265.4  | 243.5  | 235.5  |
| 77.5° | 187.6  | 243.5  | 205.6  | 183.6  | 181.6  |
| 80°   | 147.7  | 183.6  | 145.7  | 131.7  | 133.7  |
| 82.5° | 103.8  | 121.7  | 95.8   | 93.8   | 93.8   |
| 85°   | 67.9   | 65.9   | 57.9   | 55.9   | 57.9   |
| 87.5° | 29.9   | 27.9   | 25.9   | 23.9   | 23.9   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)