

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: P189650

Luminaire Tested: **BRG-WS-2L30-LD2-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189650
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34869)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: BRG-WS-2L30-LD2-UNV-24-STD
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE LIGHT LEVEL 2 (820 mA)
Light Source: (308) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

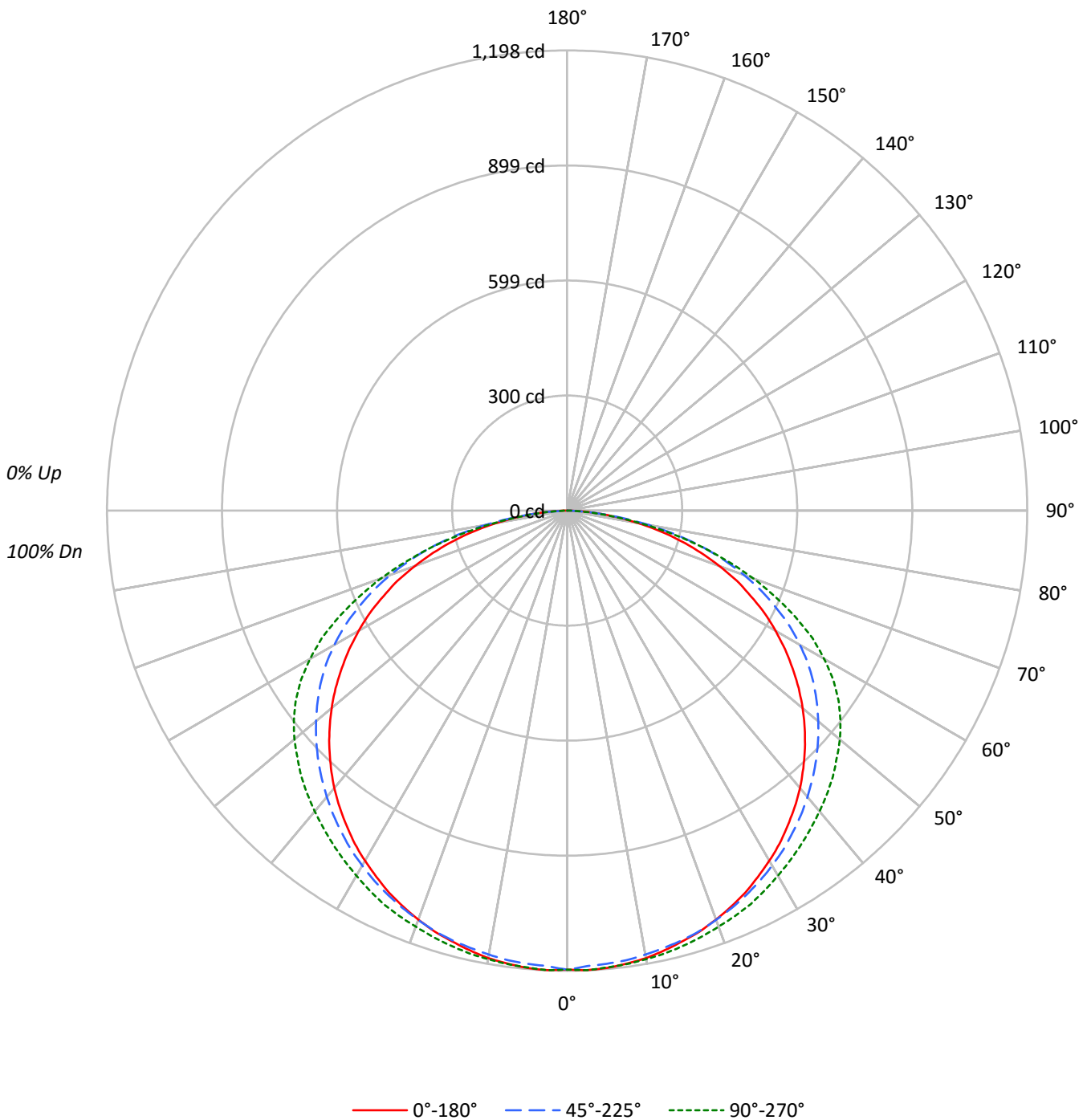
Lumens per Lamp: N/A
Luminaire Lumens: 4065.0 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.37 / 1.48
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 38.5
Input Voltage (V): NR
Input Current (A_{in}): 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 | 93 | 89 | 92 | 89 | 87 | 88 | 86 | 84 | 82 |
| 2 | 97 | 88 | 81 | 75 | 95 | 87 | 80 | 74 | 83 | 77 | 72 | 80 | 75 | 71 | 76 | 73 | 69 | 67 |
| 3 | 88 | 77 | 68 | 61 | 86 | 75 | 67 | 61 | 72 | 65 | 60 | 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 | 37 | 51 | 43 | 37 | 49 | 42 | 37 | 48 | 41 | 36 | 34 |
| 7 | 63 | 49 | 39 | 33 | 61 | 48 | 39 | 33 | 46 | 38 | 33 | 45 | 38 | 32 | 43 | 37 | 32 | 30 |
| 8 | 58 | 44 | 35 | 29 | 57 | 43 | 35 | 29 | 42 | 34 | 29 | 41 | 34 | 29 | 40 | 33 | 29 | 27 |
| 9 | 54 | 40 | 32 | 26 | 53 | 40 | 32 | 26 | 39 | 31 | 26 | 37 | 31 | 26 | 36 | 30 | 26 | 24 |
| 10 | 51 | 37 | 29 | 24 | 50 | 37 | 29 | 24 | 36 | 28 | 23 | 35 | 28 | 23 | 34 | 28 | 23 | 21 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 1830 | 1830 | 1830 |
| 5° | 1837 | 1821 | 1835 |
| 10° | 1840 | 1826 | 1844 |
| 15° | 1840 | 1836 | 1859 |
| 20° | 1847 | 1849 | 1879 |
| 25° | 1855 | 1866 | 1910 |
| 30° | 1862 | 1887 | 1941 |
| 35° | 1872 | 1914 | 1985 |
| 40° | 1886 | 1946 | 2044 |
| 45° | 1897 | 1986 | 2120 |
| 50° | 1908 | 2033 | 2209 |
| 55° | 1912 | 2092 | 2303 |
| 60° | 1919 | 2146 | 2368 |
| 65° | 1912 | 2180 | 2376 |
| 70° | 1884 | 2191 | 2309 |
| 75° | 1819 | 2154 | 2131 |
| 80° | 1664 | 1885 | 1745 |
| 85° | 1322 | 1251 | 1135 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 113.4 | 2.8 |
| 10°-20° | 329.0 | 8.1 |
| 20°-30° | 512.1 | 12.6 |
| 30°-40° | 644.0 | 15.8 |
| 40°-50° | 711.9 | 17.5 |
| 50°-60° | 702.1 | 17.3 |
| 60°-70° | 590.5 | 14.5 |
| 70°-80° | 368.8 | 9.1 |
| 80°-90° | 93.2 | 2.3 |
| 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° | 954.5 | 23.5 |
| 0°-40° | 1598.5 | 39.3 |
| 0°-60° | 3012.5 | 74.1 |
| 0°-90° | 4065.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4065.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1195 | 1195 | 1195 | 1195 | 1195 | |
| 5° | 1195 | 1192 | 1184 | 1194 | 1194 | 114 |
| 15° | 1161 | 1161 | 1158 | 1170 | 1173 | 328 |
| 25° | 1097 | 1097 | 1104 | 1124 | 1130 | 506 |
| 35° | 1001 | 1006 | 1024 | 1051 | 1062 | 627 |
| 45° | 876 | 886 | 917 | 959 | 979 | 675 |
| 55° | 716 | 736 | 784 | 836 | 863 | 640 |
| 65° | 528 | 561 | 602 | 642 | 656 | 522 |
| 75° | 307 | 354 | 364 | 359 | 360 | 324 |
| 85° | 75 | 88 | 71 | 66 | 65 | 90 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P189650

CATALOG NUMBER: BRG-WS-2L30-LD2-UNV-24-STD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1195.0 | 1195.0 | 1195.0 | 1195.0 | 1195.0 |
| 2.5° | 1197.6 | 1196.3 | 1187.1 | 1196.3 | 1197.6 |
| 5° | 1195.0 | 1192.4 | 1184.4 | 1193.7 | 1193.7 |
| 7.5° | 1189.7 | 1187.1 | 1180.5 | 1189.7 | 1191.0 |
| 10° | 1183.1 | 1180.5 | 1173.9 | 1185.8 | 1185.8 |
| 12.5° | 1172.6 | 1171.3 | 1166.0 | 1177.9 | 1180.5 |
| 15° | 1160.7 | 1160.7 | 1158.1 | 1169.9 | 1172.6 |
| 17.5° | 1148.8 | 1147.5 | 1147.5 | 1162.0 | 1163.3 |
| 20° | 1133.0 | 1133.0 | 1134.3 | 1150.2 | 1152.8 |
| 22.5° | 1115.9 | 1115.9 | 1119.8 | 1138.3 | 1142.2 |
| 25° | 1097.4 | 1097.4 | 1104.0 | 1123.8 | 1130.4 |
| 27.5° | 1075.0 | 1077.6 | 1086.8 | 1107.9 | 1114.5 |
| 30° | 1052.6 | 1055.2 | 1067.1 | 1089.5 | 1097.4 |
| 32.5° | 1028.8 | 1032.8 | 1047.3 | 1071.0 | 1080.2 |
| 35° | 1001.1 | 1006.4 | 1023.5 | 1051.2 | 1061.8 |
| 37.5° | 973.4 | 977.4 | 999.8 | 1030.1 | 1042.0 |
| 40° | 943.1 | 948.4 | 973.4 | 1007.7 | 1022.2 |
| 42.5° | 910.1 | 919.3 | 945.7 | 984.0 | 1001.1 |
| 45° | 875.8 | 886.4 | 916.7 | 958.9 | 978.7 |
| 47.5° | 838.9 | 852.1 | 886.4 | 932.5 | 952.3 |
| 50° | 800.6 | 813.8 | 853.4 | 903.5 | 927.2 |
| 52.5° | 759.7 | 776.9 | 819.1 | 871.8 | 896.9 |
| 55° | 716.2 | 736.0 | 783.5 | 836.2 | 862.6 |
| 57.5° | 672.7 | 697.7 | 743.9 | 796.7 | 821.7 |
| 60° | 626.5 | 651.6 | 700.4 | 750.5 | 772.9 |
| 62.5° | 580.4 | 605.4 | 654.2 | 699.1 | 720.2 |
| 65° | 527.6 | 560.6 | 601.5 | 642.3 | 655.5 |
| 67.5° | 478.8 | 511.8 | 548.7 | 577.7 | 586.9 |
| 70° | 420.8 | 460.3 | 489.3 | 509.1 | 515.7 |
| 72.5° | 365.4 | 407.6 | 428.7 | 432.6 | 437.9 |
| 75° | 307.3 | 353.5 | 364.0 | 358.8 | 360.1 |
| 77.5° | 249.3 | 294.1 | 291.5 | 279.6 | 280.9 |
| 80° | 188.6 | 229.5 | 213.7 | 203.1 | 197.8 |
| 82.5° | 129.3 | 163.6 | 139.8 | 126.6 | 125.3 |
| 85° | 75.2 | 88.4 | 71.2 | 65.9 | 64.6 |
| 87.5° | 30.3 | 34.3 | 23.7 | 17.1 | 15.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)