

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: P189698

Luminaire Tested: **BRG-WN-5L30-LD2-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189698
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34876)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: BRG-WN-5L30-LD2-UNV-24-STD
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND NANO PRISM INLAY
LIGHT LEVEL 5 (1440 mA)
Light Source: (308) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6551.7 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

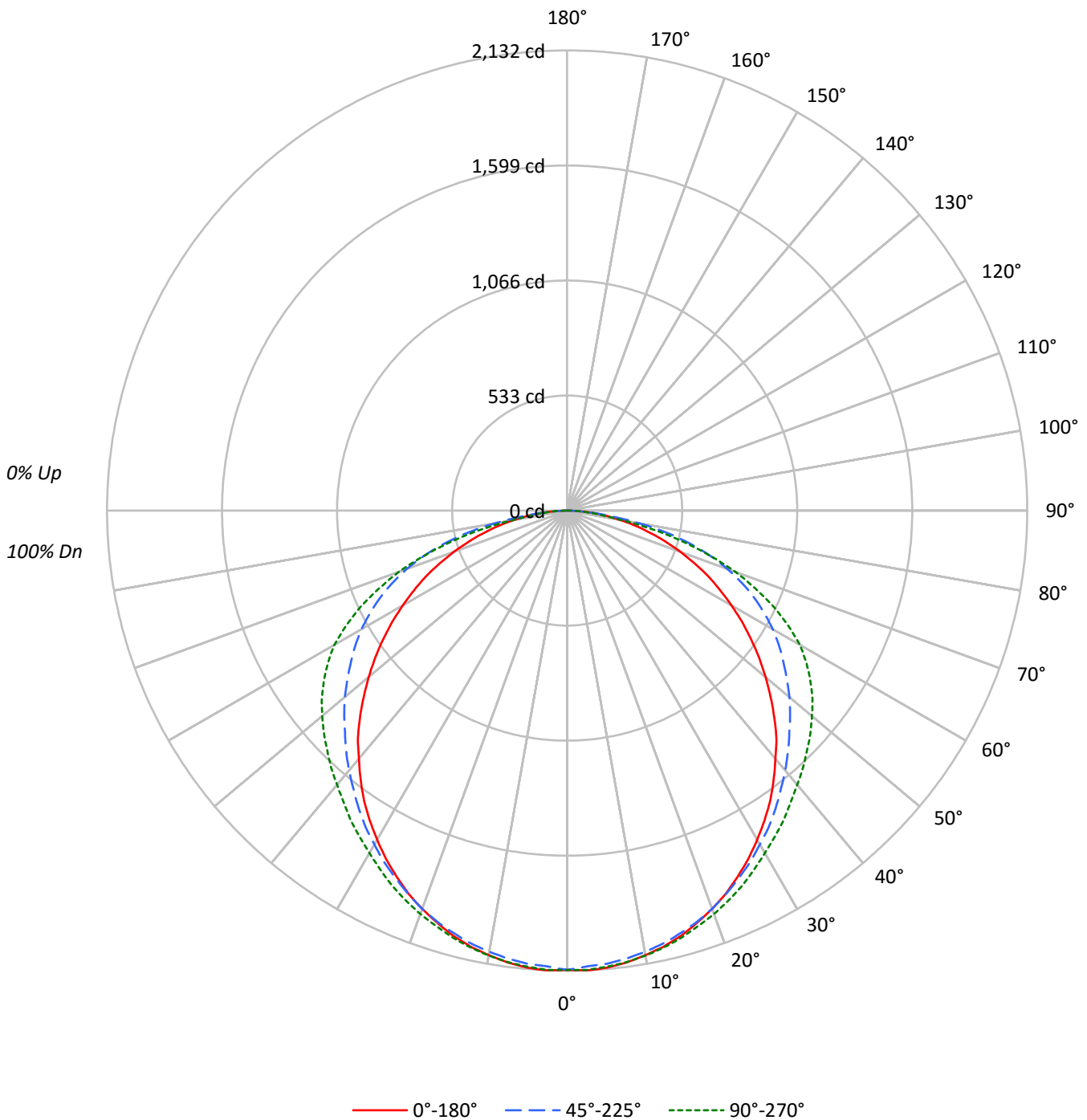
Input Watts (W): 70.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 101 | 97 | 93 | 96 | 93 | 90 | 92 | 90 | 87 | 89 | 87 | 84 | 82 |
| 2 | 98 | 89 | 82 | 76 | 95 | 87 | 80 | 75 | 83 | 78 | 73 | 80 | 75 | 71 | 77 | 73 | 70 | 68 |
| 3 | 89 | 78 | 69 | 62 | 86 | 76 | 68 | 62 | 73 | 66 | 61 | 70 | 64 | 59 | 68 | 63 | 58 | 56 |
| 4 | 81 | 68 | 59 | 52 | 79 | 67 | 59 | 52 | 65 | 57 | 51 | 62 | 56 | 50 | 60 | 54 | 50 | 47 |
| 5 | 74 | 61 | 52 | 45 | 72 | 60 | 51 | 44 | 58 | 50 | 44 | 56 | 49 | 43 | 54 | 48 | 43 | 41 |
| 6 | 68 | 55 | 45 | 39 | 66 | 54 | 45 | 39 | 52 | 44 | 38 | 50 | 43 | 38 | 49 | 42 | 38 | 35 |
| 7 | 63 | 49 | 40 | 34 | 62 | 49 | 40 | 34 | 47 | 39 | 34 | 46 | 39 | 33 | 44 | 38 | 33 | 31 |
| 8 | 59 | 45 | 36 | 30 | 57 | 44 | 36 | 30 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 28 |
| 9 | 55 | 41 | 33 | 27 | 54 | 41 | 33 | 27 | 40 | 32 | 27 | 38 | 32 | 27 | 37 | 31 | 27 | 25 |
| 10 | 52 | 38 | 30 | 25 | 50 | 38 | 30 | 25 | 37 | 29 | 24 | 36 | 29 | 24 | 35 | 29 | 24 | 22 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3259 | 3259 | 3259 |
| 5° | 3268 | 3240 | 3261 |
| 10° | 3253 | 3228 | 3256 |
| 15° | 3233 | 3215 | 3248 |
| 20° | 3201 | 3201 | 3242 |
| 25° | 3161 | 3176 | 3242 |
| 30° | 3115 | 3159 | 3239 |
| 35° | 3067 | 3148 | 3272 |
| 40° | 3002 | 3143 | 3316 |
| 45° | 2941 | 3153 | 3405 |
| 50° | 2861 | 3203 | 3529 |
| 55° | 2780 | 3267 | 3675 |
| 60° | 2694 | 3371 | 3817 |
| 65° | 2617 | 3468 | 3831 |
| 70° | 2500 | 3540 | 3714 |
| 75° | 2359 | 3465 | 3290 |
| 80° | 2210 | 3014 | 2291 |
| 85° | 2002 | 1923 | 1641 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 201.2 | 3.1 |
| 10°-20° | 575.3 | 8.8 |
| 20°-30° | 870.9 | 13.3 |
| 30°-40° | 1057.4 | 16.1 |
| 40°-50° | 1129.1 | 17.2 |
| 50°-60° | 1089.6 | 16.6 |
| 60°-70° | 914.7 | 14.0 |
| 70°-80° | 569.8 | 8.7 |
| 80°-90° | 143.7 | 2.2 |
| 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° | 1647.4 | 25.1 |
| 0°-40° | 2704.9 | 41.3 |
| 0°-60° | 4923.6 | 75.1 |
| 0°-90° | 6551.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6551.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2128 | 2128 | 2128 | 2128 | 2128 | |
| 5° | 2126 | 2121 | 2107 | 2121 | 2121 | 202 |
| 15° | 2039 | 2037 | 2028 | 2046 | 2048 | 575 |
| 25° | 1870 | 1873 | 1880 | 1909 | 1918 | 862 |
| 35° | 1640 | 1649 | 1684 | 1729 | 1750 | 1025 |
| 45° | 1358 | 1387 | 1456 | 1538 | 1572 | 1047 |
| 55° | 1041 | 1107 | 1223 | 1333 | 1376 | 931 |
| 65° | 722 | 832 | 957 | 1032 | 1057 | 712 |
| 75° | 399 | 544 | 586 | 572 | 556 | 423 |
| 85° | 114 | 160 | 109 | 96 | 93 | 128 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2127.9 | 2127.9 | 2127.9 | 2127.9 | 2127.9 |
| 2.5° | 2132.4 | 2127.9 | 2114.2 | 2127.9 | 2130.1 |
| 5° | 2125.6 | 2121.0 | 2107.4 | 2121.0 | 2121.0 |
| 7.5° | 2111.9 | 2107.4 | 2093.7 | 2109.6 | 2109.6 |
| 10° | 2091.4 | 2089.1 | 2075.5 | 2093.7 | 2093.7 |
| 12.5° | 2068.6 | 2066.4 | 2055.0 | 2073.2 | 2073.2 |
| 15° | 2039.0 | 2036.7 | 2027.6 | 2045.9 | 2048.1 |
| 17.5° | 2002.6 | 2002.6 | 1998.0 | 2016.2 | 2018.5 |
| 20° | 1963.8 | 1963.8 | 1963.8 | 1986.6 | 1988.9 |
| 22.5° | 1920.6 | 1918.3 | 1922.8 | 1947.9 | 1954.7 |
| 25° | 1870.4 | 1872.7 | 1879.5 | 1909.2 | 1918.3 |
| 27.5° | 1818.0 | 1822.6 | 1836.3 | 1868.2 | 1875.0 |
| 30° | 1761.1 | 1767.9 | 1786.1 | 1822.6 | 1831.7 |
| 32.5° | 1701.8 | 1711.0 | 1738.3 | 1774.7 | 1790.7 |
| 35° | 1640.3 | 1649.4 | 1683.6 | 1729.2 | 1749.7 |
| 37.5° | 1572.0 | 1585.7 | 1626.7 | 1683.6 | 1701.8 |
| 40° | 1501.4 | 1521.9 | 1572.0 | 1633.5 | 1658.6 |
| 42.5° | 1435.3 | 1455.8 | 1515.0 | 1585.7 | 1617.5 |
| 45° | 1357.8 | 1387.4 | 1455.8 | 1537.8 | 1572.0 |
| 47.5° | 1278.1 | 1319.1 | 1401.1 | 1487.7 | 1528.7 |
| 50° | 1200.6 | 1246.2 | 1344.2 | 1439.8 | 1480.9 |
| 52.5° | 1120.9 | 1180.1 | 1282.6 | 1387.4 | 1433.0 |
| 55° | 1041.2 | 1107.2 | 1223.4 | 1332.8 | 1376.1 |
| 57.5° | 961.4 | 1043.4 | 1164.2 | 1271.3 | 1314.5 |
| 60° | 879.4 | 972.8 | 1100.4 | 1202.9 | 1246.2 |
| 62.5° | 799.7 | 902.2 | 1029.8 | 1123.2 | 1155.1 |
| 65° | 722.2 | 831.6 | 956.9 | 1032.0 | 1057.1 |
| 67.5° | 637.9 | 763.2 | 877.1 | 934.1 | 943.2 |
| 70° | 558.2 | 694.9 | 790.5 | 822.4 | 829.3 |
| 72.5° | 476.2 | 624.2 | 694.9 | 699.4 | 694.9 |
| 75° | 398.7 | 544.5 | 585.5 | 571.8 | 555.9 |
| 77.5° | 323.5 | 462.5 | 471.6 | 428.3 | 412.4 |
| 80° | 250.6 | 373.6 | 341.7 | 287.1 | 259.7 |
| 82.5° | 177.7 | 275.7 | 211.9 | 168.6 | 157.2 |
| 85° | 113.9 | 159.5 | 109.4 | 95.7 | 93.4 |
| 87.5° | 52.4 | 59.2 | 45.6 | 41.0 | 41.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)